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No. 700.

United States Department of Agriculture,  
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., January 31, 1910.

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1910.]

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

REPORTS.

NEW.

Report of the Secretary of Agriculture. 1909. (Abridged edition.) Pp. 100. (Report 91, Office of the Secretary.) Price 10 cents.

Report of the Forester for 1909. By Gifford Pinchot. Pp. 45.

BULLETINS.

NEW.

Manufacture of Denatured Alcohol. Based on the Operations of an Experimental Still at Washington, D. C., and a Course of Lectures Delivered in Connection There-with. By H. W. Wiley, Chief Bureau of Chemistry, with the collaboration of H. E. Sawyer, L. M. Tolman, A. H. Bryan, A. Given, and H. W. Berger. Pp. 166, figs. 15. (Bulletin 130, Bureau of Chemistry.) Price 20 cents.

A List of Works on North American Entomology. Compiled for the use of students and other workers, as well as for those about to begin the collection and study of insects. By Nathan Banks, Assistant Bureau of Entomology. Pp. 120. (Bulletin 81, Bureau of Entomology.) Price 15 cents.

Technical Results from the Gipsy Moth Parasite Laboratory. I. The Parasites Reared or Supposed to have been Reared from the Eggs of the Gipsy Moth. By L. O. Howard. Pp. 12, figs. 7. (Bulletin 19, Part 1, Technical Series, Bureau of Entomology.) Price 5 cents.

Irrigation in Texas. By J. C. Nagle, Professor of Civil Engineering, Agricultural and Mechanical College of Texas. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 92, pl. 1. (Bulletin 222, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XXII, No. 1, January, 1910. E. W. Allen, Ph. D., Editor. Pp. viii, 1-100.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

**NOTE.**—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 8 numbers each, at \$1 per volume, payable in advance. Current numbers are not sold separately.

Reference List of the Electric Fixation of Atmospheric Nitrogen and the Use of Calcium Cyanamid and Calcium Nitrate on Soils. Compiled by Stephen Conrad Stuntz. Pp. 89. (Bulletin 63, Bureau of Soils.) Price 10 cents.

## REPRINT.

Bulletin 217, Office of Experiment Stations. Drainage of Irrigated Lands in the San Joaquin Valley, California. Price 15 cents.

## CIRCULARS.

## NEW.

The Labeling of Yeast. P. 1. (Food Inspection Decision 111, Office of the Secretary.) Amendment to Regulation 28 (Labeling of Derivatives). Pp. 3. (Food Inspection Decision 112, Office of the Secretary.)

Notice of Judgment Nos. 123-133, Food and Drugs Act. 123—Adulteration and Misbranding of Vanilla Extract. 124—Adulteration and Misbranding of Wheat Flour. 125—Adulteration of Milk (Added Water). 126—Misbranding of Canned Corn (Underweight). 127—Adulteration and Misbranding of Sirup (As to Presence of Glucose). 128—Misbranding of Canned Corn (Underweight). 129—Adulteration and Misbranding of Buckwheat Flour (As to Presence of Wheat Flour). 130—Adulteration and Misbranding of Lemon Extract. 131—Misbranding and Adulteration of Rye Flour. 132—Adulteration of Milk. 133—Adulteration and Misbranding of Olive Oil (A Mixture of Cotton-seed and Olive Oils). Pp. 16. (Office of the Secretary.)

Rule 2, Revision 3.—To Prevent the Spread of Scabies in Cattle. Pp. 3. (Order 167, Bureau of Animal Industry.)

The Cold Storage of Apple Cider. By H. C. Gore. Pp. 13, figs. 9. (Circular 48, Bureau of Chemistry.)

A Relation between the Chemical Constitution and the Optical Rotatory Power of the Sugar Lactones. By C. H. Hudson, Assistant Chemist. Pp. 8. (Circular 49, Bureau of Chemistry.)

Organization, Work, and Publications of Drainage Investigations. Pp. 6. (Circular 88, revised. Office of Experiment Stations.)

Progress Report on Experiments in Supplemental Irrigation with Small Water Supplies at Cheyenne and Newcastle, Wyoming, 1905-1908. By O. W. Bryant, Irrigation Manager in Charge of Work in Colorado and Wyoming. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 51, figs. 8. (Circular 92, Office of Experiment Stations.)

Organization, Work, and Publications of the Agricultural Education Service. Pp. 15. (Circular 93, Office of Experiment Stations.)

Forest Planting in Illinois. By R. S. Kellogg, Assistant Forester. Pp. 32, figs. 2. (Circular 81, revised, Forest Service.)

Reproduction of Western Yellow Pine in the Southwest. By G. A. Pearson, Forest Assistant, Forest Service. Pp. 16. (Circular 174, Forest Service.)

Surface Conditions and Stream Flow. By Wm. A. Hall, Assistant Forester, and Hu Maxwell, Expert. Pp. 16. (Circular 176, Forest Service.)

The Smuts of Sorghum. By Edward M. Freeman, Pathologist, and Harry J. C. Umberger, Scientific Assistant, Office of Grain Investigations. Pp. 8. (Circular 8, revised, Bureau of Plant Industry.)

Minor Articles of Farm Equipment. By L. W. Ellis, Assistant Office of Farm Management. Pp. 15. (Circular 44, Bureau of Plant Industry.)

Prickly Comfrey as a Forage Crop. By H. N. Vinall, Scientific Assistant, Office of Forage Crop Investigations. Pp. 9, figs. 2. (Circular 47, Bureau of Plant Industry.)

Farmers' Bulletin Subject Index. Pp. 36. (Circular 4, revised, Division of Publications.)

Monthly List of Publications, December, 1909. Pp. 4. (Document 697, Division of Publications.)

Soils of Pender County, North Carolina: A Preliminary Report. Pp. 16. (Circular 20, Bureau of Soils.)

Crop Reporter, Vol. 12, No. 1, January, 1910. Pp. 1-8. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

Notice of Judgment, Nos. 5-11, Food and Drugs Act, Office of the Secretary. 5—Misbranding of Vanilla Extract. 6—Misbranding of Cider. 7—Misbranding of Eggs. 8—Adulteration of Milk (Formaldehyde). 9—Adulteration of Milk (Water and Formaldehyde). 10—Misbranding of Cocaine Hydrochlorid. 11—Adulteration of Milk (Water).

Circular 68, revised, Bureau of Animal Industry. Diseases of the Stomach and Bowels of Cattle.

Circular 35, Bureau of Chemistry. Report on Colors: The Solubility and Extraction of Colors and the Color Reactions of Dyed Fiber and of Aqueous and Sulphuric-acid Solutions.

Circular 45, Bureau of Chemistry. A New Method for Measuring the Electrolytic Dissociation of Water.

Circular 46, Bureau of Chemistry. The Occurrence of Pinene in Lemon Oil.

Circular 25, second series, Division of Entomology. The Ox Warble.

Circular 50, second series, Bureau of Entomology. The White Ant.

Circular 92, Bureau of Entomology. Mites and Lice on Poultry.

Circular 96, Bureau of Entomology. The Catalpa Sphinx.

Circular 60, Office of Experiment Stations. The Teaching of Agriculture in the Rural Common Schools.

Circular 30, Bureau of Plant Industry. Improvement of the Oat Crop.

Circular 39, Bureau of Plant Industry. The Decay of Cabbage in Storage: Its Cause and Prevention.

Circular 6, Division of Publications. Publications of the United States Department of Agriculture and How They are Distributed.

## FARMERS' BULLETINS.

## NEW.

How to Destroy English Sparrows. By Ned Dearborn, Assistant, Biological Survey. Pp. 11, figs. 4. (Farmers' Bulletin 383.)

This bulletin contains information as to the economic relations of the English sparrow, its habits, distribution, etc., and gives directions for its destruction by various methods.

Potato Culture on Irrigated Farms of the West. By E. H. Grubb, of Colorado. Pp. 15, figs. 3. (Farmers' Bulletin 386.)

This bulletin gives directions for the preparation of the soil for the potato crop, the planting, cultivation, irrigation, etc., and contains suggestions for storing, marketing, and seed selection, with remarks on varieties and yields.

## SEPARATES.

## REPRINTS.

(From Yearbooks of Department of Agriculture.)

Separate 266, Y. B. 1902. Top Working Orchard Trees.

Separate 382, Y. B. 1905. The Use of Illustrative Material in Teaching Agriculture in Rural Schools.

Separate 475, Y. B. 1908. The Wastes of the Farm.

Separate 486, Y. B. 1908. The Relations between Birds and Insects.

Separate 493, Y. B. 1908. By-products of the Sugar Beet and Their Uses.

Separate 494, Y. B. 1908. The Development of Farm Crops Resistant to Disease.

## PUBLICATIONS OF THE WEATHER BUREAU.

Bulletin of the Mount Weather Observatory, quarterly. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 109-182, figs. 30, charts 6. (Vol. II, Part 3.) Price 25 cents each part; \$1 a year.

Monthly Weather Review, Vol. XXXVII, No. 8, August, 1909. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 411-550, maps 25, charts 7. (W. B. 419.) Price 35 cents; \$4 a year.

National Monthly Weather Bulletin for December, 1909, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 28. Price 25 cents a year.

Snow and ice bulletins for January 4, 11, 18, 25. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau Stations, supplemented by reports from selected cooperative observers.

Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

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# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., February 28, 1910.

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### ADVANCE SHEETS, SOIL SURVEY, 1908.

Soil Survey of Bibb County, Alabama. By W. E. Tharp, of the U. S. Department of Agriculture, and W. L. Lett, of the Alabama Department of Agriculture and Industries. Pp. 51, fig. 1, map.

Soil Survey of Calhoun County, Alabama. By Lewis H. Hurst, of the U. S. Department of Agriculture, and Philip H. Avery, of the Alabama Department of Agriculture and Industries. Pp. 49, fig. 1, map.

Soil Survey of Cullman County, Alabama. By W. E. Tharp, of the U. S. Department of Agriculture, and W. L. Lett, of the Alabama Department of Agriculture and Industries. Pp. 34, fig. 1, map.

Soil Survey of the Pajaro Valley, California. By W. W. Mackie. Pp. 46, fig. 1, map.

Soil Survey of Allen County, Indiana. By Grove B. Jones and Cornelius Van Duyne. Pp. 30, fig. 1, map.

Soil Survey of Livingston County, New York. By M. Earl Carr and George A. Crabb, assisted by P. O. Wood and H. O. Tiffany, of the New York State College of Agriculture. Pp. 91, fig. 1, map.

Soil Survey of the Klamath Reclamation Project, Oregon. By A. T. Sweet and I. G. McBeth. Pp. 45, pl. 1, fig. 1, map.

### BULLETINS.

#### NEW.

Cultural Studies of Species of Penicillium. By Charles Thom, Mycologist in Cheese Investigations, Dairy Division. Pp. 109, figs. 36. (Bulletin 118, Bureau of Animal Industry.) Price 10 cents.

Some Technical Methods of Testing Miscellaneous Supplies, including Paints and Paint Materials, Inks, Lubricating Oils, Soaps, etc. By Percy H. Walker, Chief, Contracts Laboratory. Pp. 68. (Bulletin 109, revised, Bureau of Chemistry.) Price 10 cents.

Dietary Studies in Public Institutions in Philadelphia, Pa., by Miss Emma Smedley and R. D. Milner; and Dietary Studies in Public Institutions in Baltimore, Md., by H. L. Knight, H. A. Pratt, and C. F. Langworthy. Pp. 98. (Bulletin 223, Office of Experiment Stations.) Price 15 cents.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Pp. 93. (Bulletin 224, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XXII, No. 2, February, 1910. E. W. Allen, Ph. D., Editor. Pp. ix, 101-200.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

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Varieties of American Upland Cotton. By Frederick J. Tyler, Scientific Assistant, Fiber Investigations. Pp. 127, pls. 8, figs. 67. (Bulletin 163, Bureau of Plant Industry.) Price 25 cents.

Promising Root Crops for the South. I. Yautias, Taros, and Dasheens. By O. W. Barrett, Plant Introducer, Office of Foreign Seed and Plant Introduction. II. Agricultural History and Utility of the Cultivated Aroids. By O. F. Cook. Pp. 43, pls. 10. (Bulletin 164, Bureau of Plant Industry.) Price 10 cents.

The Mistletoe Pest in the Southwest. By William L. Bray, Special Agent, Investigations in Forest Pathology. Pp. 39, pls. 2, figs. 7. (Bulletin 166, Bureau of Plant Industry.) Price 10 cents.

New Methods of Plant Breeding. By George W. Oliver, Plant Propagator. Pp. 39, pls. 15, figs. 2. (Bulletin 167, Bureau of Plant Industry.) Price 20 cents.

Variegated Alfalfa. By J. M. Westgate, Agronomist in Charge of Alfalfa and Clover Investigations, Forage-crop Investigations. Pp. 63, pls. 9, figs. 5. (Bulletin 169, Bureau of Plant Industry.) Price 10 cents.

Imports of Farm Products into the United States, 1851-1908. Pp. 62. (Bulletin 74, Bureau of Statistics.) Price 10 cents.

Exports of Farm Products from the United States, 1851-1908. Pp. 66. (Bulletin 75, Bureau of Statistics.) Price 10 cents.

Exports of Farm and Forest Products, 1906-1908, by Countries to Which Consigned. Pp. 91. (Bulletin 77, Bureau of Statistics.) Price 10 cents.

#### REPRINTS.

Bulletin 107, revised, Bureau of Chemistry. Official and Provisional Methods of Analysis, Association of Official Agricultural Chemists. Price 20 cents.

Experiment Station Record, Vol. XIX, No. 2, October, 1907. Price 15 cents.

Same, Vol. XIX, No. 10, June, 1908. Price 15 cents.

Same, Vol. XIX, No. 11, July, 1908. Price 15 cents.

#### CIRCULARS.

##### NEW.

The Adulteration and Misbranding of the Seeds of Alfalfa, Red Clover, Orchard Grass, and Kentucky Bluegrass. Pp. 4. (Circular 31, Office of the Secretary.)

Cotton, The Greatest of Cash Crops. Pp. 10. (Circular 32, Office of the Secretary.)

The Labeling of Whisky, Mixtures, and Imitations Thereof, under the Food and Drugs Act of June 30, 1906. Pp. 2. (Food Inspection Decision 113, Office of the Secretary.)

Notice of Judgment Nos. 134-140, Food and Drugs Act. 134. Misbranding of "Buchu Gin." 135. Misbranding of Vanilla Extract. 136. Adulteration and Misbranding of Lemon Extract. 137. Misbranding of Cheese. 138. Misbranding of Cheese. 139. Adulteration and Misbranding of Vanilla Extract. 140. Misbranding of Vanilla Extract. Pp. 14. (Office of the Secretary.)

Same, No. 141. Misbranding of Lemon Extract. Pp. 2.

Same, No. 142. Adulteration of Almond Extract. Pp. 2.

Same, No. 143. Adulteration and Misbranding of Strawberry Extract. Pp. 2.

Same, No. 144. Misbranding of a Drug Preparation. Pp. 2.

Same, No. 145. Adulteration of Seedless Raisins. Pp. 2.

Same, No. 146. The Adulteration of Raisins. Pp. 2.

Same, No. 147. Adulteration and Misbranding of Lemon Extract. Pp. 2.

Same, No. 148. Adulteration and Misbranding of Vanilla Extract. Pp. 2.

Same, No. 149. Adulteration and Misbranding of Lemon Extract. Pp. 2.

Same, No. 150. Adulteration and Misbranding of Terpeneless Lemon Extract. Pp. 2.

Same, No. 151. Adulteration of Vanilla Extract. Pp. 2.

Same, No. 152. Adulteration and Misbranding of Pineapple and Lemon Extracts. Pp. 2.

Same, No. 153. Adulteration of Peaches. Pp. 2.

Same, No. 154. Misbranding of Cheese. Pp. 3.

Same, No. 155. Misbranding of Baking Powder. Pp. 3.  
 Same, No. 156. Adulteration and Misbranding of Tomato Catsup. Pp. 2.  
 Same, No. 157. Adulteration and Misbranding of Powdered Asafoetida. Pp. 2.  
 Same, No. 158. Adulteration and Misbranding of Peppers. Pp. 2.  
 Same, No. 159. Adulteration and Misbranding of Pepper. Pp. 2.  
 Same, No. 160. Misbranding of "Buchu Gin." Pp. 3.  
 Same, No. 161. Misbranding of Evaporated Apples. Pp. 2.  
 Same, No. 162. Adulteration of Seedless Raisins. Pp. 2.  
 Same, No. 163. Misbranding of "Mapleine." Pp. 7.  
 Same, No. 164. Misbranding of Pepper. Pp. 2.  
 Same, No. 165. Misbranding of Canned Peas. Pp. 5.  
 Same, No. 166. Adulteration and Misbranding of Custard. Pp. 2.  
 Same, No. 167. Misbranding of Macaroni. Pp. 2.  
 Same, No. 168. Misbranding and Adulteration of Vinegar. Pp. 3.  
 Same, No. 169. Misbranding of Vinegar. Pp. 3.  
 Same, No. 170. Misbranding of Corn Meal. Pp. 2.  
 The Quantitative Determination of Cane Sugar by the Use of Invertase. By C. S. Hudson, Assistant Chemist. Pp. 8, fig. 1. (Circular 50, Bureau of Chemistry.)  
 The Value of Peaches as Vinegar Stock. By H. C. Gore, Assistant Chemist, Division of Foods. Pp. 7. (Circular 51, Bureau of Chemistry.)  
 List of Publications of the Bureau of Entomology. Compiled by Mabel Colcord, Librarian. Pp. 32. (Circular 76, revised, Bureau of Entomology.)  
 The Larger Corn Stalk-borer (*Diatræa saccharalis* Fab.). By George G. Ainslie, Associate Professor of Entomology, Clemson Agricultural College of South Carolina. Pp. 8, figs. 4. (Circular 116, Bureau of Entomology.)  
 The Western Grass-stem Sawfly (*Cephus occidentalis* Riley and Marlatt). By F. M. Webster, in charge of Cereal and Forage Insect Investigations; and George I. Reeves, Special Field Agent. Pp. 6, fig. 1. (Circular 117, Bureau of Entomology.)  
 Organization, Work, and Publications of Irrigation Investigations. Pp. 12. (Circular 87, Office of Experiment Stations.)  
 Free Publications of the Department of Agriculture Classified for the use of Teachers. By Dick J. Crosby and F. W. Howe, of the Office of Experiment Stations. Pp. 29. (Circular 94, Office of Experiment Stations.)  
 List of Station Publications received by the Office of Experiment Stations during January, 1910. Pp. 5. (Document 1251, Office of Experiment Stations.)  
 The Utilization of Pea-cannery Refuse for Forage. By M. A. Crosby, Assistant Agriculturist, Office of Farm Management. Pp. 12. (Circular 45, Bureau of Plant Industry.)  
 The Present Status of the Tobacco Industry. By Wightman W. Garner, Physiologist in charge of Tobacco Investigations. Pp. 13. (Circular 48, Bureau of Plant Industry.)  
 Publications of the Bureau of Plant Industry. Pp. 12. (Document 548, Bureau of Plant Industry.)  
 Monthly List of Publications, January, 1910. Pp. 4. (Document 700, Division of Publications.)  
 Soils in the Vicinity of Brunswick, Ga.: A Preliminary Report. Pp. 21. (Circular 21, Bureau of Soils.)  
 The Food and Drugs Act. Pp. 4. (Circular 29, Office of the Solicitor.)  
 Crop Reporter, Vol. 12, No. 2, February, 1910. Pp. 9-16. (Bureau of Statistics.)  
     The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

Circular 30, Office of the Secretary. Hog Raising in the South.  
 Circular 105, Bureau of Animal Industry. Baby Beef.  
 Circular 44, Bureau of Chemistry. Apparatus for Use in the Determination of Volatile Acids in Wines and Vinegars.  
 Circular 97, Bureau of Entomology. The Bagworm.  
 Circular 105, Bureau of Entomology. The Rose Slugs.  
 Circular 113, Bureau of Entomology. The Chinch Bug.  
 Circular 82, Forest Service. Hardy Catalpa.  
 Circular 160, Forest Service. Coyote-proof Pasture Experiment, 1908.  
 Circular 165, Forest Service. Practical Assistance to Owners of Forest Land and Tree Planters.  
 Circular 41, Bureau of Plant Industry. The South African Pipe Calabash.  
 Document 441, Bureau of Plant Industry. Commercial Fertilizers: Their Uses and Value.

## FARMERS' BULLETINS.

## NEW.

Experiment Station Work, LV. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32, figs. 3. (Farmers' Bulletin 384.)

CONTENTS: Poultry manure—Early onions in the Southwest—Oleander poisoning of live stock—Fermented cotton-seed meal for hogs—Wintering farm work horses—Alfalfa meal as a feeding stuff—Mangels for milch cows—Records of dairy herds—Skim-milk buttermilk—Whipped cream—Farm butter making—Camembert cheese making—Cement and concrete fence posts.

Boys' and Girls' Agricultural Clubs. By F. W. Howe, Assistant in Agricultural Education, Office of Experiment Stations. Pp. 23, figs. 11. (Farmers' Bulletin 385.)

This bulletin is issued in response to the great demand for information concerning this form of school-extension work in agriculture. It outlines the purpose and results of such work, tells how the work has been done in certain States, the assistance given by the Department of Agriculture, the relation of club work to rural education, gives suggestions for the organization and work of junior agricultural clubs, and contains a list of available publications prepared with reference to this work.

## SEPARATES.

## REPRINTS.

Separate 324, Yearbook, 1903. Wheat Flour and Bread.

Separate 340, Yearbook, 1904. Opportunities in Agriculture.

Separate 480, Yearbook, 1908. Information about Spraying for Orchard Pests.

Separate 485, Yearbook, 1908. The Manufacture of Flavoring Extracts.

## PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVII, No. 9, September, 1909. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 551-695, maps 26, charts 7. (W. B. 420.) Price 35 cents; \$4 a year.

Same, Vol. XXXVII, No. 10, October, 1909. Pp. 697-839, maps 25, charts 7. (W. B. 421.) Price 35 cents; \$4 a year.

National Monthly Weather Bulletin for January, 1910, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 1. Price 25 cents a year.

Snow and Ice bulletins for February 1, 8, 15, and 22. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.

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Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

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## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., April 30, 1910.

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**ADVANCE SHEETS, BUREAU OF SOILS, 1908.**

Soil Survey of Autauga County, Alabama. By L. A. Hurst, of the U. S. Department of Agriculture, and C. S. Waldrop, of the Alabama Department of Agriculture and Industries. Pp. 43, fig. 1, map.

Soil Survey of Jefferson County, Alabama. By Howard C. Smith, of the U. S. Department of Agriculture, and E. S. Pace, of the Alabama Department of Agriculture and Industries. Pp. 37, fig. 1, map.

Soil Survey of Monroe County, Mississippi. By R. A. Winston, Ora Lee, jr., A. W. Mangum, W. J. Latimer, A. E. Kocher, and Howard C. Smith. Pp. 48, fig. 1, map.

Soil Survey of Western North Dakota. By Macy H. Lapham and Party. Pp. 80, pls. 6, fig. 1, map.

A Reconnoissance Soil Survey of Northwestern Pennsylvania. By Henry J. Wilder and Gustavus B. Maynadier, assisted by Charles F. Shaw, of the Pennsylvania Agricultural Experiment Station. Pp. 51, fig. 1, map.

**REPORTS.**

**NEW.**

Yearbook of the U. S. Department of Agriculture, 1909. Pp. 652, pls. 36, figs. 36. Price, cloth, \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 152 pages, and 23 miscellaneous papers, 263 pages, covering a wide variety of subjects thoroughly representative of the varied scientific work conducted by the department; also an appendix, 202 pages, and index, 34 pages. The appendix contains the annual statistical tables covering production and prices of the principal crops and farm animals, and the imports and exports of agricultural products. Among the new features in the portion devoted to agricultural statistics are tables showing the rice crops of the United States from 1712 to 1909, and the hop crops from 1790 to 1909, ocean freight rates on grain and cotton from United States to European ports, and average receipts for freight transportation on railroads in the United States from 1890 to 1908.

Only 6 out of each 100 of this publication are assigned to this department, which is insufficient to supply even its regular correspondents and coworkers. Miscellaneous applicants are therefore respectfully referred to their Senators, Representatives, or Delegates in Congress, to whom the other 94 per cent are allotted for distribution. The Superintendent of Documents sells it at \$1 per copy.

Twenty-fifth Annual Report of the Bureau of Animal Industry, 1908. Pp. 502, pls. 11, figs. 72. Price, cloth, 70 cents.

**BULLETINS.**

**NEW.**

The Intracellular Enzymes of *Penicillium* and *Aspergillus*, with Special Reference to those of *Penicillium Camemberti*. By Arthur Wayland Dox, Chemist in Cheese Investigations, Dairy Division. Pp. 70. (Bulletin 120, Bureau of Animal Industry.) Price 10 cents.

Tri-local Experiments on the Influence of Environment on the Composition of Wheat. By J. A. Le Clerc, in Charge of Vegetable-physiological Chemistry, with the Collaboration of Sherman Leavitt, Assistant Chemist. Pp. 18. (Bulletin 128, Bureau of Chemistry.) Price 5 cents.

Lead Arsenate. I. Composition of Lead Arsenates Found on the Market. II. "Home-made" Lead Arsenate and the Chemicals Entering into Its Manufacture. III. Action of Lead Arsenate on Foliage. By J. K. Haywood, Chief, Miscellaneous Division, and C. C. McDonnell, Chief, Insecticide and Fungicide Laboratory, Miscellaneous Division, in Cooperation with the Bureau of Entomology. Pp. 50, pls. 4, fig. 1. (Bulletin 131, Bureau of Chemistry.) Price 15 cents.

Some Insects Injurious to Truck Crops: Contents and Index to Bulletin 66, Bureau of Entomology. Pp. x, 99-108. Price 5 cents.

The Clover-root Curculio. By V. L. Wildermuth, Agent and Expert. Pp. 29-38, figs. 5. (Bulletin 85, Part 3, Bureau of Entomology.) Price 5 cents.

Technical results from the Gipsy Moth Parasite Laboratory. II. Descriptions of Certain Chalcidoid Parasites. By J. C. Crawford, Assistant Curator, Division of Insects, U. S. National Museum. Pp. 13-24, figs. 16. (Bulletin 19, Part II, Technical series, Bureau of Entomology.) Price 5 cents.

Experiment Station Record, Vol. XXI, Index Number. F. W. Allen, Ph. D., Editor. Pp. xiii, 801-911. Price 15 cents.

Experiment Station Record, Vol. XXII, No. 3, March, 1910. E. W. Allen, Ph. D., Editor. Pp. ix, 201-300.

Same, Vol. XXII, No. 4, Abstract Number. Pp. ix, 301-400.

Same, Vol. XXII, No. 5, April, 1910. Pp. viii, 401-500.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 8 numbers each, at \$1 per volume, payable in advance. Current numbers are not sold separately.

Accessions to the Department Library. October-December, 1909. Pp. 68. (Bulletin 74, Library.) Price 10 cents.

Monthly Bulletin (Library accessions), Vol. 1, No. 1, January, 1910. Pp. 1-25. Price 50 cents a year.

Same, Vol. 1, No. 2, February, 1910. Pp. 27-48.

Traction Plowing. By L. W. Ellis, Assistant, Office of Farm Management. Pp. 45, fig. 1. (Bulletin 170, Bureau of Plant Industry.) Price 10 cents.

Seasonal Nitrification as Influenced by Crops and Tillage. By C. A. Jensen, Agriculturist. Pp. 31, figs. 7. (Bulletin 173, Bureau of Plant Industry.) Price 10 cents.

The Control of the Peach Brown-rot and Scab. By W. M. Scott, Pathologist, and T. Willard Ayres, Scientific Assistant, Fruit-disease Investigations. Pp. 31, pls. 4, fig. 1. (Bulletin 174, Bureau of Plant Industry.) Price 10 cents.

The History and Distribution of Sorghum. By Carleton R. Ball, Agronomist in Charge of Grainsorghum Investigations. Pp. 63, figs. 17. (Bulletin 175, Bureau of Plant Industry.) Price 10 cents.

Seeds and Plants Imported during the Period from July 1 to September 30, 1909. Inventory No. 20; Nos. 25718 to 26047. Pp. 34. (Bulletin 176, Bureau of Plant Industry.) Price 5 cents.

A Protected Stock Range in Arizona. By David Griffiths, Agriculturist, Office of Farm Management. Pp. 28, pls. 6, fig. 1. (Bulletin 177, Bureau of Plant Industry.) Price 15 cents.

Examination and Classification of Rocks for Road Building, including the Physical Properties of Rocks with Reference to Their Mineral Composition and Structure. By Edwin C. E. Lord, Petrographer, Office of Public Roads. Pp. 29, pls. 10, fig. 1. (Bulletin 31, Office of Public Roads.) Price 15 cents.

#### CIRCULARS.

##### NEW.

The Dissemination of Disease by Dairy Products, and Methods for Prevention. I. Milk as a Carrier of Contagious Disease, and the Desirability of Pasteurization. By G. Lloyd MacGruder. II. The Importance of a Wholesome Milk Supply. By John R. Mohler. III. The Relation of the Tuberculous Cow to Public Health. By E. C. Schroeder. IV. Interpretation of Results of Bacteriological Examination of Milk. By L. A. Rogers and S. H. Ayers. V. Pasteurization, Its Advantages and Disadvantages. By M. J. Rosenau. Pp. 57, figs. 11. (Circular 153, Bureau of Animal Industry.)

The Need of State and Municipal Meat Inspection to Supplement Federal Inspection. By A. M. Farrington, Assistant Chief, Bureau of Animal Industry. Pp. 14, figs. 6. (Circular 154, Bureau of Animal Industry.)

Mycotic Lymphangitis of Horses. By John R. Mohler, Chief, Pathological Division. Pp. 5, figs. 4. (Circular 155, Bureau of Animal Industry.)

Chronic Bacterial Dysentery of Cattle. By John R. Mohler, Chief, Pathological Division. Pp. 3, fig. 1. (Circular 156, Bureau of Animal Industry.)

The Prevention of Losses among Sheep from Stomach Worms (*Hæmonchus contortus*). Pp. 10. (Circular 157, Bureau of Animal Industry.)

Improved Methods for the Production of Market Milk by Ordinary Dairies. By C. B. Lane, Senior Dairyman, and Karl E. Parks, Architect, Dairy Division. Pp. 12, figs. 11. (Circular 158, Bureau of Animal Industry.)

Some Important Facts in the Life History of the Gid Parasite and Their Bearing on the Prevention of the Disease. By Maurice C. Hall, Junior Zoologist, Zoological Division. Pp. 7. (Circular 159, Bureau of Animal Industry.)

Lip-and-leg Ulceration of Sheep. I. The Work of the Bureau of Animal Industry for the Suppression of Lip-and-leg Ulceration of Sheep. By A. D. Melvin, Chief, Bureau of Animal Industry. II. Lip-and-leg Ulceration (Necrobacillosis) of Sheep: Its Cause and Treatment. By John R. Mohler, Chief, Pathological Division. Pp. 35, figs. 7. (Circular 160, Bureau of Animal Industry.)

National Bird and Mammal Reservations in Alaska in Charge of the U. S. Department of Agriculture. Pp. 15, figs. 8. (Circular 71, Bureau of Biological Survey.)

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1909. Pp. 32. (Circular 52, Bureau of Chemistry.)

Suggested Modification of the Winton Lead Number, Especially as Applied to Mixtures of Maple and Cane Sugar Sirups. By S. H. Ross, Acting Chief, Omaha Food and Drug Inspection Laboratory. Pp. 9. (Circular 53, Bureau of Chemistry.)

Analysis of Canned Peas and Beans, Showing Composition of Different Grades. By W. L. Dubois, Acting Chief, Buffalo Food and Drug Inspection Laboratory. Pp. 9. (Circular 54, Bureau of Chemistry.)

Control of the Mediterranean Flour Moth by Hydrocyanic-acid Gas Fumigation. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 22, figs. 5. (Circular 112, Bureau of Entomology.)

The Horn Fly. (*Hematobia serrata* Rob.-Desv.) By C. L. Marlatt, Assistant Entomologist. Pp. 13, figs. 6. (Circular 115, Bureau of Entomology.)

A Predaceous Mite Proves Noxious to Man. (*Pediculoides ventricosus* Newport.) By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 24, figs. 13. (Circular 118, Bureau of Entomology.)

The Clover Root-borer. By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 5, figs. 4. (Circular 119, Bureau of Entomology.)

The Control of the Brown-rot and Plum Curculio on Peaches. By W. M. Scott, of the Bureau of Plant Industry, and A. L. Quaintance, of the Bureau of Entomology. Pp. 7. Circular 120, Bureau of Entomology.)

The Oyster-shell Scale and the Scurfy Scale. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and E. R. Sasser, Scientific Assistant. Pp. 15, figs. 2. (Circular 121, Bureau of Entomology.)

Experiments in Supplemental Irrigation with Small Water Supplies at Cheyenne, Wyo., in 1909. By John H. Gordon, Irrigation Farmer, in Charge. Prepared under the Direction of Samuel Fortier, Chief, Irrigation Investigations. Pp. 11, fig. 1. (Circular 95, Office of Experiment Stations.)

How to Test Seed Corn in Schools. Pp. 7, figs. 4. (Circular 96, Office of Experiment Stations.)

Improvement of Pastures in Eastern New York and the New England States. By J. S. Cotton, Assistant Agriculturist, Office of Farm Management. Pp. 10, pls. 2. (Circular 49, Bureau of Plant Industry.)

Three Much Misrepresented Sorghums. By Carleton R. Ball, Agronomist in Charge of Grain-sorghum Investigations. Pp. 14, figs. 2. (Circular 50, Bureau of Plant Industry.)

Fruit Growing for Home Use in the Central and Southern Great Plains. By H. P. Gould, Pomologist in Charge of Fruit District Investigations. Pp. 23, figs. 5. (Circular 51, Bureau of Plant Industry.)

Wart Disease of the Potato; a Dangerous European Disease Liable to be Introduced into the United States. By W. A. Orton, Pathologist, and Ethel C. Field, Scientific Assistant, Cotton and Truck Diseases and Sugar-plant Investigations. Pp. 11, pls. 2. (Circular 52, Bureau of Plant Industry.)

Mutative Reversions in Cotton. By O. F. Cook. Pp. 18. (Circular 53, Bureau of Plant Industry.)

The Substitution of Lime-sulphur Preparations for Bordeaux Mixture in the Treatment of Apple Diseases. By W. M. Scott, Pathologist in Charge of Orchard-spraying Experiments. Pp. 15, pls. 3. (Circular 54, Bureau of Plant Industry.)

American Export Corn (Maize) in Europe. By John D. Shanahan, Crop Technologist in Charge, and Clyde E. Leighty and Emil G. Boerner, Assistants, Grain Standardization. Pp. 42, figs. 7. (Circular 55, Bureau of Plant Industry.)

Some Conditions Influencing the Yield of Hops. By W. W. Stockberger, Pharmacognocist, and James Thompson, Expert, Drug-plant Investigations. Pp. 12, figs. 2. (Circular 56, Bureau of Plant Industry.)

Monthly List of Publications, March, 1910 (Foreign). Pp. 4. (Document 706, Division of Publications.)

Sand-clay and Earth Roads in the Middle West. By W. L. Spoon, Superintendent of Road Construction, Office of Public Roads. Pp. 31, figs. 6. (Circular 91, Office of Public Roads.)

Crop Reporter, Vol. 12, No. 3, March, 1910. Pp. 17-24. (Bureau of Statistics.)

Same, Vol. 12, No. 4, April, 1910. Pp. 25-32. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### FARMERS' BULLETINS.

##### NEW.

The Preservative Treatment of Farm Timbers. By C. P. Willis, Forest Assistant, Forest Service. Pp. 19, figs. 5. (Farmers' Bulletin 387.)

This bulletin contains directions and suggestions for treating fence posts, building timbers, shingles, etc. It gives importance to treatment with creosote.

Experiment Station Work, LVI. Compiled from publications of the agricultural experiment stations. Pp. 32, figs. 7. (Farmers' Bulletin 388.)

CONTENTS.—Incompatibles in fertilizer mixtures—Principles of dry farming—Methods of seeding oats—Rolling v. harrowing winter wheat—Destruction of eelworms in soil—Pruning—Bean anthracnose or pod spot—Animal feeds for farm stock—Feeding the pig—Jelly and jelly making.

Bread and Bread Making. By Helen W. Atwater. Pp. 47, figs. 7. (Farmers' Bulletin 389.)

This bulletin discusses the important place of bread in the dietary, the different grains and flours used, yeast and other leavening agencies, and the making, composition, and digestibility of different kinds of bread.

Pheasant Raising in the United States. By Henry Oldys, Assistant, Biological Survey. With a Chapter on Diseases of Pheasants, by George Byron Morse, Assistant in Bacteriology and Pathology, Bureau of Animal Industry. Pp. 40, figs. 17. (Farmers' Bulletin 390.)

This bulletin describes different species of pheasants, and gives the history of pheasant raising in Europe and the United States, and the propagation, marketing, diseases, etc., of pheasants.

Economical Use of Meat in the Home. By C. F. Langworthy, Expert in Charge of Nutrition Investigations, and Caroline L. Hunt, Expert in Nutrition, Office of Experiment Stations. Pp. 43. (Farmers' Bulletin 391.)

This bulletin has been issued as a result of the widespread interest in the utilization and preparation of the cheaper cuts of meats. It discusses the food value and proportional cost of different meats, and contains a number of recipes for simple and inexpensive dishes.

**Irrigation of Sugar Beets.** By F. W. Roeding, Irrigation Manager, Office of Experiment Stations. Pp. 52, figs. 14. (Farmers' Bulletin 392.)

This bulletin contains information in regard to the early manufacture of beet sugar in European countries and the introduction of the sugar beet and the manufacture of beet sugar in the United States. It describes soils and climate suited to sugar-beet growing, gives directions for the preparation and irrigation of the land, describes implements necessary to the cultivation and harvesting of the crop, and contains statements as to the cost and returns of the crop.

**Habit-forming Agents: Their Indiscriminate Sale and Use a Menace to the Public Welfare.** By L. F. Kebler, Chief, Division of Drugs, Bureau of Chemistry. Pp. 19, figs. 5. (Farmers' Bulletin 393.)

This bulletin is issued as a result of an investigation by the Division of Drugs. It contains information as to the extent of importation and use of habit-forming drugs, the classes of products containing them, and gives lists of some of the popular soothing sirups, medicated drinks, catarrh and consumption cures, etc., containing such drugs.

**The Muskrat.** By David E. Lantz, Assistant, Bureau of Biological Survey. Pp. 38, figs. 5. (Farmers' Bulletin 396.)

This bulletin discusses the use and conservation of the fur supply, and the importance of the muskrat as a fur-bearing animal. It describes the common muskrat, its habits, food, etc., and gives directions for trapping and cooking this animal, and preparing the pelt for market. It also gives some examples of muskrat farming.

#### SEPARATES.

#### NEW.

(From Twenty-fifth Annual Report, Bureau of Animal Industry, 1908.)

**The Economic Importance of Tuberculosis of Food-producing Animals.** By A. D. Melvin, Chief, Bureau of Animal Industry. Pp. 97-107.

**The Relation of the Tuberculous Cow to the Public Health.** By E. C. Schroeder, Superintendent of Bureau experiment station. Pp. 109-153, pls. 3, figs. 15.

**The Causation and Character of Animal Tuberculosis, and Federal Measures for Its Repression.** By John R. Mohler, Chief of Pathological Division. Pp. 155-164.

**The Control of Hog Cholera by Serum Immunization.** By A. D. Melvin, Chief, Bureau of Animal Industry. Pp. 219-224.

**The Effect of Smelter Fumes upon the Live-stock Industry in the Northwest.** By Robert J. Formad, Pathologist, Pathological Division. Pp. 237-268, figs. 7.

**Malta Fever and the Maltese Goat Importation.** By John R. Mohler, Chief, Pathological Division, and George H. Hart, Assistant in Bacteriology, Pathological Division. Pp. 279-295, pl. 1, figs. 3.

**Notes on the Animal Industry of Argentina.** By George M. Rommel, Animal Husbandman, Bureau of Animal Industry. Pp. 315-333, pls. 6, figs. 15.

**State Legislation Regulating the Standing of Stallions and Jacks for Public Service.** By Roy A. Cave, Herdbook Assistant, Bureau of Animal Industry. Pp. 335-344.

**The 1908 Outbreak of Foot-and-mouth Disease in the United States.** By A. D. Melvin, Chief, Bureau of Animal Industry. Pp. 379-392, figs. 8.

**The Action of Saltpeter upon the Color of Meat.** By Ralph Hoagland, in Charge of Chicago Laboratory Biochemic Division. Pp. 301-314.

(From Experiment Station Record, Vol. XXII, No. 2.)

**Government versus Administration in Relation to the Agricultural Colleges and Experiment Stations.** Pp. 101-110. (O. E. S. Doc. 1255.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

**Daily River Stages at River Gage Stations on the Principal Rivers of the United States. Part IX, for the Years 1907 and 1908.** Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau, by H. C. Frankenfield, Professor of Meteorology. Pp. 368. Price 50 cents.

**Monthly Weather Review, Vol. XXXVII, No. 11, November, 1909.** Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 841-995, figs. 9, maps 25, charts 7. (W. B. 422.) Price 35 cents; \$4 a year.

**Same, Vol. XXXVII, No. 12, December, 1909.** Pp. 997-1153, figs. 7, maps 25, charts 8. (W. B. 424.) Price 35 cents.

**Same, Vol. XXXVIII, No. 1, January, 1910.** Pp. 1-167, figs. 12, maps 25, charts 8. (W. B. 425.) Price 35 cents.

**National Monthly Weather Bulletin for February, 1910, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 2.** Price 25 cents a year.

**Same, for March, 1910. No. 3.**

**National Weekly Weather Bulletin, Nos. 4, 5, 6, for weeks ending April 11, 18, 25, reporting temperature and rainfall, with summary of weather conditions throughout the United States.** Price 25 cents a year.

**Snow and Ice Bulletins for March 1, 8, 15, and 22.** These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price 25 cents per season.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

No. 713.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., June 30, 1910.

### MONTHLY LIST OF PUBLICATIONS.

[MAY AND JUNE, 1910.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

#### THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

The very great demand for publications listed here often exhausts the supply before applications are received. Reference to the Superintendent of Documents is then necessary.

#### ADVANCE SHEETS, BUREAU OF SOILS, 1908 AND 1909.

Soil Survey of Etowah County, Alabama. By W. S. Lyman and C. S. Waldrop. Pp. 31, fig. 1, map.

Soil Survey of Hancock County, Georgia. By Gustavus B. Maynadier and W. J. Geib. Pp. 27, fig. 1, map.

Soil Survey of Caswell County, North Carolina. By W. Edward Hearn and Frank P. Drane. Pp. 28, fig. 1, map.

Soil Survey of the Lake Mattamuskeet Area, North Carolina. By W. Edward Hearn. Pp. 17, fig. 1, map.

Soil Survey of Pitt County, North Carolina. By W. Edward Hearn, R. B. Hardison, J. W. Nelson, and Frank P. Drane. Pp. 35, fig. 1, map.

Soil Survey of Center County, Pennsylvania. By Charles N. Mooney, Charles F. Shaw, Lawrence A. Kolbe, Hugh H. Bennett, and Riden T. Allen. Pp. 52, fig. 1, map.

Soil Survey of Coffee County, Tennessee. By W. E. McLendon and C. R. Zappone, jr. Pp. 33, fig. 1, map.

Soil Survey of Camp County, Texas. By W. J. Geib, E. B. Watson, Thomas D. Rice, and Clarence Lounsbury. Pp. 20, fig. 1, map.

Reconnaissance Soil Survey of South Texas. By George N. Coffey. Pp. 105, pls. 4, figs. 2, map.

#### BULLETINS.

#### NEW.

Index-Catalogue of Medical and Veterinary Zoology. Part 26. (Authors: S to Schnyder.) By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant in Zoology. Pp. 1981-2076. (Bulletin 39, Part 26, Bureau of Animal Industry.) Price 15 cents.

Factors Controlling the Moisture Content of Cheese Curds. By J. L. Sammis, of the Wisconsin Agricultural Experiment Station, and S. K. Suzuki, Chemist, and F. W. Laabs, Cheesemaker. Pp. 61, figs. 27. (Bulletin 122, Bureau of Animal Industry.) Price 10 cents.

The Influence of Lactic Acid on the Quality of Cheese of the Cheddar Type. By C. F. Doane, Assistant Dairyman. Pp. 20, figs. 2. (Bulletin 123, Bureau of Animal Industry.) Price 5 cents.

Proceedings of Twenty-sixth Annual Convention, Association of Official Agricultural Chemists, Denver, Colo., Aug. 26-28, 1910. Edited by Harvey W. Wiley, Secretary. Pp. 217. (Bulletin 132, Bureau of Chemistry.) Price 25 cents.

The Woolly White-fly: A New Enemy of the Florida Orange. By E. A. Back, Agent and Expert. Pp. 65-71, pl. 1, figs. 4. (Bulletin 64, Part VIII, Bureau of Entomology.) Price 5 cents.

The Life History and Control of the Hop Flea-beetle. By William B. Parker, Collaborator. Pp. 33-58, pls. 2, figs. 10. (Bulletin 82, Part IV, Bureau of Entomology.) Price 10 cents.

The Sorghum Midge. By W. Harper Dean, Agent and Expert. Pp. 39-58, pls. 2, figs. 12. (Bulletin 85, Part IV, Bureau of Entomology.) Price 10 cents.

The New Mexico Range Caterpillar. By C. N. Ainslie, Agent and Expert. Pp. 59-96, pls. 4, figs. 53. (Bulletin 85, Part V, Bureau of Entomology.) Price 10 cents.

Plant-bugs Injurious to Cotton Bolls. By A. W. Morrill, Entomologist of Arizona Horticultural Commission and of Arizona Experiment Station. Pp. 110, pls. 5, figs. 25. (Bulletin 86, Bureau of Entomology.) Price 30 cents.

Preventive and Remedial Work against Mosquitoes. By L. O. Howard, Chief of Bureau. Pp. 126. (Bulletin 88, Bureau of Entomology.) Price 15 cents.

The Anatomy of the Honey Bee. By R. E. Snodgrass, Agent and Expert. Pp. 162, figs. 57. (Bulletin 18, Technical Series, Bureau of Entomology.) Price 20 cents.

Proceedings of the Fourteenth Annual Meeting of the American Association of Farmers' Institute Workers, Held at Portland, Oregon, August 16-17, 1909. Edited by W. H. Beal, for the Office of Experiment Stations, and John Hamilton, for the Association. Pp. 52. (Bulletin 225, Office of Experiment Stations.) Price 10 cents.

Irrigation Experiments and Investigations in Western Oregon. By A. P. Stover, In Charge of Irrigation Work in Oregon. Pp. 68, figs. 13. (Bulletin 226, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XXII, No. 6, May, 1910. E. W. Allen, Ph. D., Editor. Pp. ix, 501-600.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, at \$1 per volume. Current numbers are not sold separately.

Experiment Station Record, Vol. XXII, No. 7, June, 1910. E. W. Allen, Ph. D., Editor. Pp. ix, 601-700.

Experiment Station Record, Vol. XXII, No. 8, Abstract Number. E. W. Allen, Ph. D., Editor. Pp. ix, 701-800.

The Life History of Lodgepole Burn Forests. By F. E. Clements, Collaborator. Pp. 56, pls. 6, fig. 1. (Bulletin 79, Forest Service.) Price 15 cents.

Monthly Bulletin (Library accessions), Vol. 1, No. 3, March, 1910. Pp. 50-74. (Library.) Price 50 cents a year.

Monthly Bulletin (Library accessions), Vol. 1, No. 4. April, 1910. Pp. 76-102. (Library.) Price 50 cents a year.

Some Fungous Diseases of Economic Importance. I. Miscellaneous Diseases. By Flora W. Patterson, Mycologist, and Vera K. Charles, Scientific Assistant. II. Pineapple Rot Caused by Thielaviopsis Paradoxa. By Flora W. Patterson, Mycologist, and Vera K. Charles and Frank J. Veihmeyer, Scientific Assistants. Pp. 41, pls. 8, figs. 3. (Bulletin 171, Bureau of Plant Industry.) Price 25 cents.

Improvement of the Wheat Crop in California. By Henry F. Blanchard, Assistant Agronomist. Pp. 37, figs. 10. (Bulletin 178, Bureau of Plant Industry.) Price 10 cents.

The Florida Velvet Bean and Related Plants. By C. V. Piper, Agrostologist in Charge of Forage-crop Investigations, and S. M. Tracy, Special Agent. Pp. 26, pls. 7. (Bulletin 179, Bureau of Plant Industry.) Price 10 cents.

The Composition of Commercial Fertilizers. By Milton Whitney. Pp. 39. (Bulletin 58, Bureau of Soils.) Price 10 cents.

Fertilizers for Corn Soils. By Milton Whitney. Pp. 31. (Bulletin 64, Bureau of Soils.) Price 5 cents.

Fertilizers for Potato Soils. By Milton Whitney. Pp. 19. (Bulletin 65, Bureau of Soils.) Price 5 cents.

Fertilizers for Wheat Soils. By Milton Whitney. Pp. 48, figs. 28. (Bulletin 66, Bureau of Soils.) Price 10 cents.

Fertilizers on Soils Used for Oats, Hay, and Miscellaneous Crops. By Milton Whitney. Pp. 73. (Bulletin 67, Bureau of Soils.) Price 10 cents.

A Review of the Phosphate Fields of Idaho, Utah, and Wyoming. By W. H. Waggaman. Pp. 48, pl. 1, map. (Bulletin 69, Bureau of Soils.) Price 10 cents.

## CIRCULARS.

## NEW.

The Floating of Shellfish. P. 1. (Food Inspection Decision 121, Office of Secretary. Amendment to F. I. D. 110.)

The Labeling of Port and Sherry Wines Produced in the United States. P. 1. (Food Inspection Decision 122, Office of Secretary.)

Notices of Judgment, under Food and Drugs Act, cases of adulteration, misbranding, etc., 1 to 47 pages each: Nos. 325-388 inc. and 390-452 inc.

Whey Butter. By C. F. Doane, Assistant Dairyman, Dairy Division. Pp. 7. (Circular 161, Bureau of Animal Industry.)

To Prevent the Importation from Mexico of Horses Infested with Ticks, *Margaropus annulatus*. Pp. 2. (Amendment 10 to B. A. I. Order 142.)

Private Game Preserves and Their Future in the United States. By T. S. Palmer, In Charge of Game Preservation. Pp. 11, pls. 2. (Circular 72, Bureau of Biological Survey.)

Progress of Game Protection in 1909. By T. S. Palmer, Henry Oldys, and C. E. Brewster, Assistants, Biological Survey. Pp. 19, fig. 1. (Circular 73, Bureau of Biological Survey.)

The Determination of Total Sulphur in Organic Matter. By Herman Schreiber, Assistant Chemist, Bureau of Chemistry. Pp. 9. (Circular 56, Bureau of Chemistry.)

Experiments on the Preparation of Sugared Dried Pineapples. By H. C. Gore, Assistant Chemist. Pp. 8, fig. 1. (Circular 57, Bureau of Chemistry.)

The Destruction of the Enzym Invertase by Acids, Alkalies, and Hot Water. By C. S. Hudson and H. S. Paine, Assistant Chemists. Pp. 5, figs. 2. (Circular 59, Bureau of Chemistry.)

Methods of Controlling Tobacco Insects. By A. C. Morgan, Agent and Expert. Pp. 17, figs. 11. (Circular 123, Bureau of Entomology.)

Institutions in the United States Giving Instruction in Agriculture. Pp. 15. (Circular 97, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations during May, 1910. Pp. 6. (Document 1286, Office of Experiment Stations.)

The Cultivation of Hemp in the United States. By Lyster H. Dewey, Botanist in Charge of Fiber Investigations. Pp. 7, fig. 1. (Circular 57, Bureau of Plant Industry.)

Dry-land Grains for Western North and South Dakota. By Cecil Salmon, Plant Physiologist, Grain Investigations. Pp. 23, figs. 5. (Circular 59, Bureau of Plant Industry.)

The Separation of Seed Barley by the Specific Gravity Method. By H. B. Derr, Agronomist in Charge of Barley Investigations. Pp. 6, fig. 1. (Circular 62, Bureau of Plant Industry.)

Methods of Legume Inoculation. By Karl F. Kellerman, Physiologist in Charge of Soil-bacteriology Investigations. Pp. 5. (Circular 63, Bureau of Plant Industry.)

Publications for Free Distribution. Pp. 80. (Circular 2, revised, Division of Publications.)

Monthly List of Publications, March-April, 1910. Pp. 4. (Document 709, Division of Publications.)

Monthly List of Publications, Foreign Distribution, May, 1910. Pp. 4. (Document 711, Division of Publications.)

The Twenty-eight Hour Law. Pp. 6. (Circular 33, Office of the Solicitor.)

The Cattle Quarantine Law. Pp. 7. (Circular 34, Office of the Solicitor.)

The Twenty-eight Hour Law. Pp. 4. (Circular 36, Office of the Solicitor.)

The Twenty-eight Hour Law. Pp. 4. (Circular 37, Office of the Solicitor.)

Crop Reporter, Vol. 12, No. 5, May, 1910. Pp. 33-40. (Bureau of Statistics.)

Same, Vol. 12, No. 6, June, 1910. Pp. 41-48. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

The Use of Windmills in Irrigation in the Semiarid West. By P. E. Fuller, Irrigation Engineer, Office of Experiment Stations. Pp. 44, figs. 15. (Farmers' Bulletin 394.)

Sixty-day and Kherson Oats. By C. W. Warburton, Agronomist in Charge of Oat Investigations, Bureau of Plant Industry. Pp. 27, figs. 5. (Farmers' Bulletin 395.)

Bees. By E. F. Phillips, Ph. D., in charge of Bee Culture, Bureau of Entomology. Pp. 44, figs. 21. (Farmers' Bulletin 397.)

Farm Practice in the Use of Commercial Fertilizers in the South Atlantic States. By J. C. Beavers, Scientific Assistant, Office of Farm Management, Bureau of Plant Industry. Pp. 24, figs. 2. (Farmers' Bulletin 398.)

Irrigation of Grain. By Walter W. McLaughlin, Irrigation Engineer, Office of Experiment Stations. Pp. 23, figs. 7. (Farmers' Bulletin 399.)

A More Profitable Corn-planting Method. By C. P. Hartley, Physiologist in Charge of Corn Investigations, Bureau of Plant Industry. Pp. 14, figs. 5. (Farmers' Bulletin 400.)

The Protection of Orchards in the Pacific Northwest from Spring Frosts by Means of Fires and Smudges. By P. J. O'Gara, Scientific Assistant, Fruit-Disease Investigations, Bureau of Plant Industry. Pp. 24, figs. 11. (Farmers' Bulletin 401.)

Canada Bluegrass: its Culture and Uses. By R. A. Oakley, Assistant Agrostologist, Forage-Crop Investigations, Bureau of Plant Industry. Pp. 20, figs. 7. (Farmers' Bulletin 402.)

The Construction of Concrete Fence Posts. Prepared by the Office of Public Roads. Pp. 31, figs. 9. (Farmers' Bulletin 403.)

Experiment Station Work LVII. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32, figs. 13. (Farmers' Bulletin 405.)

Soil Conservation. By W. J. Spillman, in charge of Farm Management. Pp. 15. (Farmers' Bulletin 406.)

## SEPARATES.

## NEW.

Methods and Cost of Marketing. By Frank Andrews, Scientific Assistant, Bureau of Statistics. Pp. 161-172. (Separate 502, Yearbook 1909.)

Conditions Influencing the Production of Sugar-beet Seed in the United States. By C. O. Townsend, Pathologist, Bureau of Plant Industry. Pp. 173-184, pls. 3. (Separate 503, Yearbook 1909.)

Plants Useful to Attract Birds and Protect Fruit. By W. L. McAtee, Assistant, Biological Survey. Pp. 185-196. (Separate 504, Yearbook 1909.)

The Problems of an Irrigation Farmer. By Carl S. Scofield, Agriculturalist, Bureau of Plant Industry. Pp. 197-208. (Separate 505, Yearbook 1909.)

Pocket Gophers as Enemies of Trees. By David E. Lantz, Assistant, Biological Survey. Pp. 209-218, pls. 3, fig. 1. (Separate 506, Yearbook 1909.)

The Functions and Value of Soil Bacteria. By Karl F. Kellerman, Physiologist, Bureau of Plant Industry. Pp. 219-226, figs. 2. (Separate 507, Yearbook 1909.)

Farming as an Occupation for City-bred Men. By W. J. Spillman, Agriculturalist, Bureau of Plant Industry. Pp. 239-248. (Separate 509, Yearbook 1909.)

The Introduction of the Hungarian Partridge into the United States. By Henry Oldys, Assistant, Biological Survey. Pp. 249-258, pl. 1. (Separate 510, Yearbook 1909.)

The Future Wheat Supply of the United States. By Mark Alfred Carleton, Cerealist, Bureau of Plant Industry. Pp. 259-272, figs. 2. (Separate 511, Yearbook 1909.)

Vegetable Seed Growing as a Business. By William W. Tracy, sr., Superintendent, Bureau of Plant Industry. Pp. 273-284, pls. 2. (Separate 512, Yearbook 1909.)

Information in regard to Fabricated Wire Fences and Hints to Purchasers. By Allerton S. Cushman, Assistant Director, Office of Public Roads. Pp. 285-292, fig. 1. (Separate 513, Yearbook 1909.)

Methods of Applying Water to Crops. By Samuel Fortier, Chief of Irrigation Investigations, Office Experiment Stations. Pp. 293-308, pl. 1, figs. 10. (Separate 514, Yearbook 1909.)

Progress in Methods of Producing Higher Yielding Strains of Corn. By C. P. Hartley, Physiologist, Bureau of Plant Industry. Pp. 309-320, pls. 4. (Separate 515, Yearbook 1909.)

Agriculture in the Coal Regions of Southwestern Pennsylvania. By H. J. Wilder, Bureau of Soils. Pp. 321-332. (Separate 516, Yearbook 1909.)

Comforts and Conveniences in Farmers' Homes. By W. R. Beattie, Assistant, Bureau of Plant Industry. Pp. 345-356, figs. 6. (Separate 518, Yearbook 1909.)

Prevention of Frost Injury to Fruit Crops. By G. B. Brackett, Pomologist, Bureau of Plant Industry. Pp. 357-364, pl. 1, fig. 1. (Separate 519, Yearbook 1909.)

The Handling of Deciduous Fruits on the Pacific Coast. By A. V. Stubenrauch, Expert, Bureau of Plant Industry. Pp. 365-374, pls. 3. (Separate 520, Yearbook 1909.)

Promising New Fruits. By William Taylor, Pomologist, Bureau of Plant Industry. Pp. 375-386, pls. 7. (Separate 521, Yearbook 1909.)

How Farmers May Utilize the Special Warnings of the Weather Bureau. By Charles F. Von Herrmann, Section Director, Weather Bureau. Pp. 387-398. (Separate 522, Yearbook 1909.)

Injuries to Forest Trees by Flat-headed Borers. By H. E. Burke, Expert, Bureau of Entomology. Pp. 399-415, figs. 12. (Separate 523, Yearbook 1909.)

## PUBLICATIONS OF THE WEATHER BUREAU.

Bulletin of the Mount Weather Observatory, Vol. II, Parts 4, 5, and 6. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 183-278, pls. 5, figs. 15, charts 6. Pp. 279-345, charts 6. Pp. 347-410, figs. 8, charts 6. (W. B. 427, 428, and 430.) Price 25 cents each part; \$1 a year.

Monthly Weather Review, Vol. 38, No. 2, February, 1910. Prepared under the direction of Willis L. Moore, Chief of U. S. Weather Bureau. Pp. 169-327, fig. 1, maps 25, charts 8. (W. B. 426.) Price 35 cents; \$4 a year.

Same, No. 3, March, 1910. Pp. 329-505, figs. 3, charts 26. (W. B. 429.)

National Weekly Weather Bulletin, Nos. 7-15, for weeks ending May 2-June 27, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Electrotypes of any illustrations which have appeared in the publications of this department since 1908 can be supplied to applicants on an order from the Division of Publications, by the firms which make them for the department, the cost being about 5 cents per square inch, payable to the maker on receipt of the cuts.

It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

JOS. A. ARNOLD, *Editor and Chief.*

Approved:

JAMES WILSON, *Secretary of Agriculture.*

## FOREIGN DISTRIBUTION.

This circular will be sent regularly to all who apply for it.

No. 711.

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 31, 1910.

## MONTHLY LIST OF PUBLICATIONS.

[MAY, 1910.]

NOTE.—To obtain the publications of this Department, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Remittances must invariably include postage, except in the cases of Canada, Mexico, and Cuba. In cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Applications for them should be made to the several stations in the different States.

### BULLETINS.

#### NEW.

Factors Controlling the Moisture Content of Cheese Curds. By J. L. Sammis, of the Wisconsin Agricultural Experiment Station, and S. K. Suzuki, Chemist, and F. W. Laabs, Cheesemaker, Dairy Division, Bureau of Animal Industry. Pp. 61, figs. 27. (Bulletin 122, Bureau of Animal Industry.) Price 10 cents; postage 3 cents.

The Influence of Lactic Acid on the Quality of Cheese of the Cheddar Type. By C. F. Doane, Assistant Dairyman, Dairy Division. Pp. 20, figs. 2. (Bulletin 123, Bureau of Animal Industry.) Price 5 cents; postage 1 cent.

The Woolly White-fly: A New Enemy of the Florida Orange. By E. A. Back, Agent and Expert. Pp. 65-71, pl. 1, figs. 4. (Bulletin 64, Part VIII, Bureau of Entomology.) Price 5 cents; postage 1 cent.

The Life History and Control of the Hop Flea-beetle. By William B. Parker, Collaborator. Pp. 33-58, pls. 2, figs. 10. (Bulletin 82, Part IV, Bureau of Entomology.) Price 10 cents; postage 2 cents.

The Sorghum Midge. By W. Harper Dean, Agent and Expert. Pp. 39-58, pls. 2, figs. 12. (Bulletin 85, Part IV, Bureau of Entomology.) Price 10 cents; postage 1 cent.

The Anatomy of the Honey Bee. By R. E. Snodgrass, Agent and Expert. Pp. 162, figs. 57. (Bulletin 18, Technical Series, Bureau of Entomology.) Price 20 cents; postage 6 cents.

Proceedings of the Fourteenth Annual Meeting of the American Association of Farmers' Institute Workers, Held at Portland, Oregon, August 16, 17, 1909. Edited by W. H. Beal, for the Office of Experiment Stations, and John Hamilton, for the Association. Pp. 52. (Bulletin 225, Office of Experiment Stations.) Price 10 cents; postage 2 cents.

Experiment Station Record, Vol. XXII, No. 6, May, 1910. E. W. Allen, Ph. D., Editor. Pp. ix, 501-600.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 8 numbers each, at \$1.50 per volume, including postage, payable in advance. Current numbers are not sold separately.

Monthly Bulletin (Library accessions), Vol. 1, No. 3, March, 1910. Pp. 50-74. (Library.) Price 50 cents a year; postage 15 cents.

The Florida Velvet Bean and Related Plants. By C. V. Piper, Agrostologist in Charge of Forage-crop Investigations, and S. M. Tracy, Special Agent, Forage-crop Investigations. Pp. 26, pls. 7. (Bulletin 179, Bureau of Plant Industry.) Price 10 cents; postage 2 cents.

The Composition of Commercial Fertilizers. By Milton Whitney. Pp. 39. (Bulletin 58, Bureau of Soils.) Price 10 cents; postage 2 cents.

Fertilizers for Corn Soils. By Milton Whitney. Pp. 31. (Bulletin 64, Bureau of Soils.) Price 5 cents; postage 2 cents.

Fertilizers for Potato Soils. By Milton Whitney. Pp. 19. (Bulletin 65, Bureau of Soils.) Price 5 cents; postage 1 cent.

Fertilizers for Wheat Soils. By Milton Whitney. Pp. 48, figs. 28. (Bulletin 66, Bureau of Soils.) Price 10 cents; postage 3 cents.

#### REPRINTS.

Bulletin 2, Alaska Agricultural Experiment Station. Vegetable Growing in Alaska. Price 5 cents; postage 2 cents.

Bulletin 177, Office of Experiment Stations. Evaporation Losses in Irrigation and Water Requirements of Crops. Price 10 cents; postage 3 cents.

Bulletin 70, Forest Service. Effect of Moisture upon the Strength and Stiffness of Wood. Price 15 cents; postage 6 cents.

Bulletin 76, Forest Service. How to Grow and Plant Conifers in the Northeastern States. Price 10 cents; postage 2 cents.

Bulletin 78, Forest Service. Wood Preservation in the United States. Price 10 cents; postage 2 cents.

#### CIRCULARS.

(Price 5 cents; postage 1 cent.)

#### NEW.

Private Game Preserves and Their Future in the United States. By T. S. Palmer, In Charge of Game Preservation. Pp. 11, pls. 2. (Circular 72, Bureau of Biological Survey.)

Progress of Game Protection in 1909. By T. S. Palmer, Henry Oldys, and C. E. Brewster, Assistants, Biological Survey. Pp. 19, fig. 1. (Circular 73, Bureau of Biological Survey.)

Experiments on the Preparation of Sugared Dried Pineapples. By H. C. Gore, Assistant Chemist, Division of Foods. Pp. 8, fig. 1. (Circular 57, Bureau of Chemistry.)

Institutions in the United States Giving Instruction in Agriculture. Pp. 15. (Circular 97, Office of Experiment Stations.)

The Cultivation of Hemp in the United States. By Lyster H. Dewey, Botanist in Charge of Fiber Investigations. Pp. 7, fig. 1. (Circular 57, Bureau of Plant Industry.)

The Separation of Seed Barley by the Specific Gravity Method. By H. B. Derr, Agronomist in Charge of Barley Investigations, Grain Investigations. Pp. 6, fig. 1. (Circular 62, Bureau of Plant Industry.)

Methods of Legume Inoculation. By Karl F. Kellerman, Physiologist in Charge of Soil-bacteriology Investigations. Pp. 5. (Circular 63, Bureau of Plant Industry.)

Publications for Free Distribution. Pp. 80. (Circular 2, revised, Division of Publications.)

Monthly List of Publications, March-April, 1910. Pp. 4. (Document 709, Division of Publications.)

Crop Reporter, Vol. 12, No. 5, May, 1910. Pp. 33-40. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents will furnish it at 75 cents per volume (12 numbers), including postage, payable in advance.

## REPRINTS.

Circular 32, Office of the Secretary. Cotton, the Greatest Cash Crop.

Circular 112, Bureau of Entomology. Control of the Mediterranean Flour Moth by Hydrocyanic-acid Gas Fumigation.

Circular 94, Office of Experiment Stations. Free Publications of the Department of Agriculture Classified for the Use of Teachers.

Circular 6, Porto Rico Agricultural Experiment Station. Fertilizadores ó Abonos.

Circular 59, revised, Forest Service. Eucalypts.

Circular 70, Forest Service. European Larch.

Circular 74, Forest Service. Honey Locust.

Circular 75, Forest Service. Hackberry.

Circular 76, Forest Service. Silver Maple.

Circular 96, Forest Service. Arbor Day.

Circular 101, Forest Service. The Open-tank Method for the Treatment of Timber.

Circular 114, Forest Service. Wood Distillation.

Circular 116, Forest Service. The Waning Hardwood Supply and the Appalachian Forests.

Circular 132, Forest Service. The Seasoning and Preservative Treatment of Hemlock and Tamarack Cross-ties.

Circular 141, Forest Service. Wood Paving in the United States.

Circular 151, Forest Service. The Preservative Treatment of Loblolly Pine Cross-arms.

Circular 172, Forest Service. Methods of Increasing Forest Productivity.

Circular 174, Forest Service. Reproduction of Western Yellow Pine in the Southwest.

Circular 41, Bureau of Plant Industry. The South American Pipe Calabash.

## FARMERS' BULLETINS.

(Price 5 cents; postage 1 cent.)

## NEW.

**The Use of Windmills in Irrigation in the Semiarid West.** By P. E. Fuller, Irrigation Engineer, Office of Experiment Stations. Pp. 44, figs. 15. (Farmers' Bulletin 394.)

This bulletin gives directions for testing the underground water supply in semiarid localities, boring and digging wells, the determination of capacity of windmills needed, the choice of the tower and erection of the mills, construction of the pumps and reservoirs, gives estimates and values of crops grown under irrigation, and contains data in regard to the number, size, cost, and results of windmills now in use.

**Sixty-day and Kherson Oats.** By C. W. Warburton, Agronomist in Charge of Oat Investigations, Bureau of Plant Industry. Pp. 27, figs. 5. (Farmers' Bulletin 395.)

The species of early oats described in this bulletin are especially adapted to the corn-belt and dry-land regions. The bulletin gives their history and characteristics, their value and adaptability to various sections, the results of experiments, and contains a table of the average yields of the two kinds of oats in several States.

**Farm Practice in the Use of Commercial Fertilizers in the South Atlantic States.** By J. C. Beavers, Scientific Assistant, Office of Farm Management, Bureau of Plant Industry. Pp. 24, figs. 2. (Farmers' Bulletin 398.)

This bulletin discusses the factors which influence the economical use of commercial fertilizers in growing the staple crops in this section of the country, including rotation of crops, the use of green manure and cover crops, preparation of the soils, etc., and contains directions for the use of special fertilizers for different crops.

**Irrigation of Grain.** By Walter W. McLaughlin, Irrigation Engineer, Office of Experiment Stations. Pp. 23, figs. 7. (Farmers' Bulletin 399.)

This bulletin describes methods and machinery used in the irrigation of grain crops, the proper time for irrigation and the quantity of water required, the relation of irrigation to seeding, and the danger of failure. It contains statistics regarding the value of irrigated lands and the cost and returns of the crops grown.

**A More Profitable Corn-planting Method.** By C. P. Hartley, Physiologist in Charge of Corn Investigations, Bureau of Plant Industry. Pp. 14, figs. 5. (Farmers' Bulletin 400.)

This bulletin recommends the kernel-spaced checking method of planting corn, and discusses the advantages of this method over the old method of bunching the kernels in the hill. It contains a table comparing the returns of the two methods of planting.

The Construction of Concrete Fence Posts. Prepared by the Office of Public Roads. Pp. 31, figs. 9. (Farmers' Bulletin 403.)

This bulletin discusses the comparative advantages of concrete and wooden fence posts, the selection of materials for making concrete, choosing the molds, the reinforcement of concrete with steel, the building of the fence, etc.

SEPARATES.

(Price 5 cents; postage 1 cent.)

NEW.

The Introduction of the Hungarian Partridge into the United States. By Henry Oldys, Assistant, Biological Survey. Pp. 249-258, pl. 1. (Separate 510, Yearbook 1909.)

Information in regard to Fabricated Wire Fences and Hints to Purchasers. By Allerton S. Cushman, Assistant Director, Office of Public Roads. Pp. 285-292, fig. 1. (Separate 513, Yearbook 1909.)

REPRINT.

Separate 376, Y. B. 1905. How to Grow Young Trees for Forest Planting.

PUBLICATIONS OF THE WEATHER BUREAU.

Bulletin of the Mount Weather Observatory, Vol. II, Part 5. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 279-345; charts 6. (Weather Bureau.) Price 25 cents each part, postage 6 cents; \$1 a year, postage 25 cents.

Monthly Weather Review, Vol. 38, No. 2, February, 1910. Prepared under the direction of Willis L. Moore, Chief of U. S. Weather Bureau. Pp. 169-327, fig. 1, maps 25, charts 8. (W. B. 426.) Price 35 cents, postage 15 cents; \$4 a year, postage \$1.50.

National Weekly Weather Bulletin, Nos. 7, 8, 9, 10, for weeks ending May 2, 9, 16, 23, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year, postage 30 cents.

Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., June 30, 1910.

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1910.]

NOTE.—To obtain the publications of this Department, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

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BULLETINS.

NEW.

Index-Catalogue of Medical and Veterinary Zoology. Part 26. (Authors: S to Schnyder.) By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant in Zoology. Pp. 1981-2076. (Bulletin 39, Part 26, Bureau of Animal Industry.) Price 15 cents; postage 4 cents.

Proceedings of Twenty-sixth Annual Convention, Association of Official Agricultural Chemists, Denver, Colo., Aug. 26-28, 1910. Edited by Harvey W. Wiley, Secretary. Pp. 217. (Bulletin 132, Bureau of Chemistry.) Price 25 cents; postage 6 cents.

The New Mexico Range Caterpillar. By C. N. Ainslie, Agent and Expert. Pp. 59-96, pls. 4, figs. 53. (Bulletin 85, Part V, Bureau of Entomology.) Price 10 cents; postage 2 cents.

Plant-bugs Injurious to Cotton Bolls. By A. W. Morrill, Entomologist of Arizona Horticultural Commission and of Arizona Experiment Station. Pp. 110, pls. 5, figs. 25. (Bulletin 86, Bureau of Entomology.) Price 30 cents; postage 5 cents.

Preventive and Remedial Work against Mosquitoes. By L. O. Howard, Chief of Bureau. Pp. 126. (Bulletin 88, Bureau of Entomology.) Price 15 cents; postage 4 cents.

Irrigation Experiments and Investigations in Western Oregon. By A. P. Stover, In Charge of Irrigation Work in Oregon. Pp. 68, figs. 13. (Bulletin 226, Office of Experiment Stations.) Price 15 cents; postage 3 cents.

Experiment Station Record, Vol. XXII, No. 7, June, 1910. E. W. Allen, Ph. D., Editor. Pp. ix, 601-700.

Experiment Station Record, Vol. XXII, No. 8, Abstract Number. E. W. Allen, Ph. D., Editor. Pp. ix, 701-800.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

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The Life History of Lodgepole Burn Forests. By F. E. Clements, Collaborator. Pp. 56, pls. 6, fig. 1. (Bulletin 79, Forest Service.) Price 15 cents; postage 3 cents. Monthly Bulletin (Library Accessions), Vol. 1, No. 4. April, 1910. Pp. 76-102. (Library.) Price 50 cents a year; postage 15 cents.

Some Fungous Diseases of Economic Importance. I. Miscellaneous Diseases. By Flora W. Patterson, Mycologist, and Vera K. Charles, Scientific Assistant. II. Pineapple Rot Caused by *Thielaviopsis Paradoxa*. By Flora W. Patterson, Mycologist, and Vera K. Charles and Frank J. Veihmeyer, Scientific Assistants. Pp. 41, pls. 8, figs. 3. (Bulletin 171, Bureau of Plant Industry.) Price 25 cents; postage 3 cents.

Improvement of the Wheat Crop in California. By Henry F. Blanchard, Assistant Agronomist. Pp. 37, figs. 10. (Bulletin 178, Bureau of Plant Industry.) Price 10 cents; postage 2 cents.

Fertilizers on Soils Used for Oats, Hay, and Miscellaneous Crops. By Milton Whitney. Pp. 73. (Bulletin 67, Bureau of Soils.) Price 10 cents; postage 3 cents.

A Review of the Phosphate Fields of Idaho, Utah, and Wyoming. By W. H. Wagaman. Pp. 48, pl. 1, map. (Bulletin 69, Bureau of Soils.) Price 10 cents; postage 2 cents.

#### CIRCULARS.

(Price 5 cents; postage 1 cent.)

#### NEW.

The Floating of Shellfish. P. 1. (Food Inspection Decision 121, Office of Secretary. Amendment to F. I. D. 110.)

The Labeling of Port and Sherry Wines Produced in the United States. P. 1. (Food Inspection Decision 122, Office of Secretary.)

Notices of Judgment, under Food and Drugs Act, cases of adulteration, misbranding, etc., 1 to 47 pages each: Nos. 325-388 inc. and 390-452 inc.

Whey Butter. By C. F. Doane, Assistant Dairyman, Dairy Division. Pp. 7. (Circular 161, Bureau of Animal Industry.)

To prevent the Importation from Mexico of Horses Infested with Ticks, *Margaropus annulatus*. Pp. 2. (Amendment 10 to B. A. I. Order 142.)

The Determination of Total Sulphur in Organic Matter. By Herman Schreiber, Assistant Chemist, Bureau of Chemistry. Pp. 9. (Circular 56, Bureau of Chemistry.)

The Destruction of the Enzym Invertase by Acids, Alkalies, and Hot Water. By C. S. Hudson and H. S. Paine, Assistant Chemists. Pp. 5, figs. 2. (Circular 59, Bureau of Chemistry.)

Methods of Controlling Tobacco Insects. By A. C. Morgan, Agent and Expert. Pp. 17, figs. 11. (Circular 123, Bureau of Entomology.)

List of Station Publications Received by the Office of Experiment Stations during May, 1910. Pp. 6. (Document 1286, Office of Experiment Stations.)

Dry-land Grains for Western North and South Dakota. By Cecil Salmon, Plant Physiologist, Grain Investigations. Pp. 23, figs. 5. (Circular 59, Bureau of Plant Industry.)

Monthly List of Publications, Foreign Distribution, May, 1910. Pp. 4. (Document 711, Division of Publications.)

The Twenty-eight Hour Law. Pp. 6. (Circular 33, Office of the Solicitor.)

The Cattle Quarantine Law. Pp. 7. (Circular 34, Office of the Solicitor.)

The Twenty-eight Hour Law. Pp. 4. (Circular 36, Office of the Solicitor.)

The Twenty-eight Hour Law. Pp. 4. (Circular 37, Office of the Solicitor.)

Crop Reporter, Vol. 12, No. 6, June, 1910. Pp. 41-48. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

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## REPRINTS.

Circular 118, Bureau of Animal Industry. The Unsuspected but Dangerously Tuberculous Cow.

Circular 127, Bureau of Animal Industry. Tubercl Bacilli in Butter.

Circular 143, Bureau of Animal Industry. Milk and its Products as Carriers of Tuberculosis Infection.

Circular 153, Bureau of Animal Industry. The Dissemination of Disease by Dairy Products, and Methods for Prevention.

Circular 154, Forest Service. Native and Planted Timber of Iowa.

Circular 156, Forest Service. Preliminary Report on Grazing Experiments in a Coyote-proof Pasture.

Circular 169, Forest Service. Natural Revegetation of Depleted Mountain Grazing Lands.

Circular 171, Forest Service. The Forests of the United States: Their Use.

Circular 44, Bureau of Plant Industry. Minor Articles of Farm Equipment.

## FARMERS' BULLETINS.

(Price 5 cents; postage 1 cent.)

## NEW.

Bees. By E. F. Phillips, in Charge of Bee Culture, Bureau of Entomology. Pp. 44, figs. 21. (Farmers' Bulletin 397.)

This bulletin discusses the habits of bees, the equipment necessary for their care and management, the production of honey and wax, and gives directions for general manipulations, hiving, swarming, and feeding, and protection from enemies, with information important to bee keepers, and a list of publications in reference to the subject.

The Protection of Orchards in the Pacific Northwest from Spring Frosts, by Means of Fires and Smudges. By P. J. O'Gara, Scientific Assistant, Fruit-disease Investigations, Bureau of Plant Industry. Pp. 24, figs. 11. (Farmers' Bulletin 401.)

This bulletin gives the details of successful experiments in preventing frost injury in apple, peach, and pear orchards of the Rogue River Valley, southern Oregon, during the spring of 1909, the fuel used for fires and smudges, and the means used to obtain weather forecasts and frost warnings.

Canada Bluegrass: Its Culture and Uses. By R. A. Oakley, Assistant Agrostologist, Forage-crop Investigations, Bureau of Plant Industry. Pp. 20, figs. 7. (Farmers' Bulletin 402.)

This bulletin describes Canada bluegrass, its uses and value in certain localities for pasture, hay, and soil binder; describes the production, harvesting, thrashing, and cleaning of seed, and gives directions for the management of the bluegrass in cropping systems.

Experiment Station Work LVII. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, figs. 13. (Farmers' Bulletin 405.)

CONTENTS: A perfect stand of corn—Protection of seed corn—Clover-seed production—Home-grown feeds for hogs—Fleshing horses for market—Fertility and hatching of eggs—Marketing of eggs—Cement silos.

Soil Conservation. By W. J. Spillman, in Charge of Farm Management. Pp. 15. (Farmers' Bulletin 406.)

The topics discussed in this bulletin are: Disposal of government land; importance of cheap food; steps in agricultural development; abandonment of lands in older States; and the solution of the problem of soil conservation, with examples of successful farming.

## SEPARATES.

(Price 5 cents; postage 1 cent.)

## NEW.

Methods and Cost of Marketing. By Frank Andrews, Scientific Assistant, Bureau of Statistics. Pp. 161-172. (Separate 502, Yearbook 1909.)

Conditions Influencing the Production of Sugar-beet Seed in the United States. By C. O. Townsend, Pathologist, Bureau of Plant Industry. Pp. 173-184, pls. 3. (Separate 503, Yearbook 1909.)

Plants Useful to Attract Birds and Protect Fruit. By W. L. McAtee, Assistant, Biological Survey. Pp. 185-196. (Separate 504, Yearbook 1909.)

The Problems of an Irrigation Farmer. By Carl S. Scofield, Agriculturalist, Bureau of Plant Industry. Pp. 197-208. (Separate 505, Yearbook 1909.)

Pocket Gophers as Enemies of Trees. By David E. Lantz, Assistant, Biological Survey. Pp. 209-218, pls. 3, fig. 1. (Separate 506, Yearbook 1909.)

The Functions and Value of Soil Bacteria. By Karl F. Kellerman, Physiologist, Bureau of Plant Industry. Pp. 219-226, figs. 2. (Separate 507, Yearbook 1909.)

Farming as an Occupation for City-bred Men. By W. J. Spillman, Agriculturalist, Bureau of Plant Industry. Pp. 239-248. (Separate 509, Yearbook 1909.)

The Future Wheat Supply of the United States. By Mark Alfred Carleton, Cerealist, Bureau of Plant Industry. Pp. 259-272, figs. 2. (Separate 511, Yearbook 1909.)

Vegetable Seed Growing as a Business. By William W. Tracy, sr., Superintendent, Bureau of Plant Industry. Pp. 273-284, pls. 2. (Separate 512, Yearbook 1909.)

Methods of Applying Water to Crops. By Samuel Fortier, Chief of Irrigation Investigations, Office of Experiment Stations. Pp. 293-308, pl. 1, figs. 10. (Separate 514, Yearbook 1909.)

Progress in Methods of Producing Higher Yielding Strains of Corn. By C. P. Hartley, Physiologist, Bureau of Plant Industry. Pp. 309-320, pls. 4. (Separate 515, Yearbook 1909.)

Agriculture in the Coal Regions of Southwestern Pennsylvania. By H. J. Wilder, Bureau of Soils. Pp. 321-332. (Separate 516, Yearbook 1909.)

Comforts and Conveniences in Farmers' Homes. By W. R. Beattie, Assistant, Bureau of Plant Industry. Pp. 345-356, figs. 6. (Separate 518, Yearbook 1909.)

Prevention of Frost Injury to Fruit Crops. By G. B. Brackett, Pomologist, Bureau of Plant Industry. Pp. 357-364, pl. 1, fig. 1. (Separate 519, Yearbook 1909.)

The Handling of Deciduous Fruits on the Pacific Coast. By A. V. Stubenrauch, Expert, Bureau of Plant Industry. Pp. 365-374, pls. 3. (Separate 520, Yearbook 1909.)

Promising New Fruits. By William Taylor, Pomologist, Bureau of Plant Industry. Pp. 375-386, pls. 7. (Separate 521, Yearbook 1909.)

How Farmers May Utilize the Special Warnings of the Weather Bureau. By Charles F. Von Herrmann, Section Director, Weather Bureau. Pp. 387-398. (Separate 522, Yearbook 1909.)

Injuries to Forest Trees by Flat-headed Borers. By H. E. Burke, Expert, Bureau of Entomology. Pp. 399-415, figs. 12. (Separate 523, Yearbook 1909.)

## REPRINTS.

Separate 133, Yearbook 1898. Birds as Weed Destroyers.

Separate 197, Yearbook 1900. How Birds Affect the Orchard.

Separate 480, Yearbook 1908. Information about Spraying for Orchard Insects.

## PUBLICATIONS OF THE WEATHER BUREAU.

Bulletin of the Mount Weather Observatory, Vol. II, parts 4, 5, and 6. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 183-278, pls. 5, figs. 15, charts 6. Pp. 279-345, charts 6. Pp. 347-410, figs. 8, charts 6. (W. B. 427, 428, and 430.) Price 25 cents each part, postage 6 cents; \$1 a year, postage 25 cents.

Monthly Weather Review, Vol. 38, No. 3, March, 1910. Prepared under the direction of Willis L. Moore, Chief of U. S. Weather Bureau. Pp. 329-505, figs. 3, charts 26. (W. B. 429.) Price 35 cents, postage 16 cents; \$4 a year, postage \$1.50.

National Weekly Weather Bulletin, Nos. 11-15, for weeks ending June 6, 13, 20, 27, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year, postage 30 cents.

Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

No. 715.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., July 30, 1910.

### MONTHLY LIST OF PUBLICATIONS.

[JULY, 1910.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

The very great demand for publications listed here often exhausts the supply before applications are received. Reference to the Superintendent of Documents is then necessary.

#### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of the Caribou Area, Maine. By H. L. Westover and R. W. Rowe. Pp. 40, fig. 1, map. (From F. O. Soils, 1908.)

Soil Survey of Bates County, Missouri. By Charles J. Mann, Allen L. Higgins, and Lawrence A. Kolbe. Pp. 32, fig. 1, map. (From F. O. Soils, 1908.)

Soil Survey of Hale County, Alabama. By R. W. Rowe and William G. Smith, of the U. S. Department of Agriculture, and C. S. Waldrop, of the Alabama Department of Agriculture and Industries. Pp. 31, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Pike County, Georgia. By Charles N. Mooney and Gustavus B. Maynadier. Pp. 31, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of the Scranton Area, Mississippi. By Ora Lee, jr., Risdan T. Allen, and R. A. Winston. Pp. 38, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Titus County, Texas. By Thomas D. Rice and E. B. Watson. Pp. 27, fig. 1, map. (From F. O. Soils, 1909.)

#### BULLETINS.

##### NEW.

Index-catalogue of Medical and Veterinary Zoology. Part 27. (Authors: Schoch to Silvestrini.) By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 2077-2168. (Bulletin 39, Part 27, Bureau of Animal Industry.) Price 15 cents.

Same, Part 28. (Authors: Sim to von Stenitzer.) Pp. 2169-2250. (Bulletin 39, Part 28, Bureau of Animal Industry.) Price 10 cents.

Same, Part 29. (Authors: Stenroos to Szymanski.) Pp. 2251-2326. (Bulletin 39, Part 29, Bureau of Animal Industry.) Price 10 cents.

Injury to Vegetation and Animal Life by Smelter Wastes. By J. K. Haywood, Chief of the Miscellaneous Division. Pp. 63, pls. 9. (Bulletin 113, revised, Bureau of Chemistry.) Price 10 cents.

Contributions to a Knowledge of the Corn Root-aphis. By R. A. Vickery, Agent and Expert. Pp. 97-118, pl. 1, figs. 6. (Bulletin 85, Part 6, Bureau of Entomology.) Price 5 cents.

**Irrigation in Colorado.** By C. W. Beach and P. J. Preston, former Deputy State Engineer, Colorado. Prepared under the direction of Samuel Fortier, Chief, Irrigation Investigations. Pp. 48, pl. 1. (Bulletin 218, Office of Experiment Stations.) Price 15 cents.

**Experiment Station Record, Vol. XXIII, No. 1, July, 1910.** E. W. Allen, Ph. D., Editor. Pp. 1-100.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, at \$1 per volume. Current numbers are not sold separately.

**The Forests of Alaska.** By R. S. Kellogg, Assistant Forester. Pp. 24, pls. 9, fig. 1. (Bulletin 81, Forest Service.) Price 25 cents.

**Monthly Bulletin (Library accessions), Vol. 1, No. 5, May, 1910.** Pp. 104-138. (Library.) Price 20 cents a year.

**The Curly-top of Beets.** By Harry B. Shaw, Assistant Pathologist in Cotton and Truck Diseases and Sugar-plant Investigations, in Cooperation with the Bureau of Entomology. Pp. 46, pls. 9, figs. 9. (Bulletin 181, Bureau of Plant Industry.) Price 15 cents.

**Field Studies of the Crown-gall of the Grape.** By George G. Hedgecock, Pathologist, Fruit-disease Investigations. Pp. 40, pls. 4. (Bulletin 183, Bureau of Plant Industry.) Price 10 cents.

#### REPRINTS.

**Bulletin 58, Part 5, Bureau of Entomology.** Insect Depredations in North American Forests, and Practical Methods of Prevention and Control. Price 10 cents.

**Bulletin 79, Bureau of Entomology.** Fumigation Investigations in California. Price 15 cents.

#### CIRCULARS.

##### NEW.

**Amendment 1 to Rule 2, Revision 3.—To Prevent the Spread of Scabies in Cattle.** P. 1. (Amendment 1 to B. A. I. Order 167.)

**Rule 8, Revision 2.—To Prevent the Spread of Lip-and-leg Ulceration (Necrobacillosis) in Sheep.** Pp. 4. (B. A. I. Order 169.)

**Regulations for the Protection of Game in Alaska.** Pp. 2. (Circular 75, Bureau of Biological Survey.)

**The Effect of Alcohol on Invertase.** By C. S. Hudson and H. S. Paine. Pp. 8, figs. 2. (Circular 58, Bureau of Chemistry.)

**A Theory of the Influence of Acids and Alkalies on the Activity of Invertase.** By C. S. Hudson, Assistant Chemist. Pp. 3. (Circular 60, Bureau of Chemistry.)

**Progress in Agricultural Education Extension.** By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 12. (Circular 98, Office of Experiment Stations.)

**List of Station Publications Received by the Office of Experiment Stations during June, 1910.** Pp. 7. (Document 1287, Office of Experiment Stations.)

**The Pasturage System for Handling Range Sheep.** Investigations during 1909. By J. T. Jardine, Deputy Forest Supervisor. Pp. 40, pls. 4. (Circular 178, Forest Service.)

**Lumber Saved by Using Odd Lengths.** Pp. 5. (Circular 180, Forest Service.)

**Suggestions to Settlers on the Sandy Soils of the Columbia River Valley.** By Byron Hunter, Assistant Agriculturist, Office of Farm Management, and S. O. Jayne, Irrigation Manager, Office of Experiment Stations. Pp. 23, figs. 2. (Circular 60, Bureau of Plant Industry.)

**Dry-land Grains in the Great Basin.** By F. D. Farrell, Superintendent of the Nephi Substation, Grain Investigations. Pp. 39, pls. 2. (Circular 61, Bureau of Plant Industry.)

**Progress Reports of Experiments in Dust Prevention and Road Preservation.** Pp. 32. (Circular 92, Office of Public Roads.)

Monthly List of Publications, May and June, 1910. Pp. 4. (Document 713, Division of Publications.)

The Labeling of Stock Feed. Pp. 2. (Food Inspection Decision 124, Office of the Secretary.)

The Labeling of Cordials. P. 1. (Food Inspection Decision 125, Office of the Secretary.)

The Twenty-eight Hour Law. Pp. 8. (Circular 35, Office of the Solicitor.)

Meat Inspection Law. Meat Food Product—Lard Substitute. Regulations of the Secretary of Agriculture. Pp. 9. (Circular 38, Office of the Solicitor.)

Crop Reporter, Vol. 12, No. 7, July, 1910. Pp. 49–56. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

Circular 78, Bureau of Animal Industry. Glanders and Farcy.

Circular 140, Bureau of Animal Industry. The Egg Trade of the United States.

Order 150, Bureau of Animal Industry. Regulations Governing the Meat Inspection of the United States Department of Agriculture.

Circular 11, Bureau of Entomology. The Rose-chafer.

Circular 32, revised, Bureau of Entomology. The Larger Apple-tree Borers.

Circular 38, Bureau of Entomology. The Squash-vine Borer.

Circular 60, Bureau of Entomology. The Imported Cabbage Worm.

Circular 71, revised, Bureau of Entomology. House Flies.

Circular 81, Bureau of Entomology. The Aphides Affecting the Apple.

Circular 92, Bureau of Entomology. Mites and Lice on Poultry.

Circular 94, Bureau of Entomology. The Cause of American Foul Brood.

Circular 104, Bureau of Entomology. The Common Red Spider.

Circular 115, Bureau of Entomology. The Horn Fly.

Circular 116, Bureau of Entomology. The Larger Corn Stalk-borer.

Circular 118, Bureau of Entomology. A Predaceous Mite Proves Noxious to Man.

Circular 119, Bureau of Entomology. The Clover Root-borer.

Circular 120, Bureau of Entomology. Control of the Brown-rot and Plum Curculio on Peaches.

Circular 121, Bureau of Entomology. The Oyster-shell Scale and the Scurfy Scale.

Circular 61, Forest Service. How to Transplant Forest Trees.

Circular 69, Forest Service. Fence-post Trees.

Circular 82, Forest Service. Hardy Catalpa.

Circular 84, Forest Service. White Ash.

Circular 95, Forest Service. Sugar Maple.

Circular 106, Forest Service. White Oak.

Circular 142, Forest Service. Tests of Vehicle and Implement Woods.

Circular 169, Forest Service. Natural Revegetation of Depleted Mountain Grazing Lands.

Circular 54, Bureau of Plant Industry. The Substitution of Lime-sulphur Preparations for Bordeaux Mixture in the Treatment of Apple Diseases.

Circular 57, Bureau of Plant Industry. The Cultivation of Hemp in the United States.

#### FARMERS' BULLETIN.

##### NEW.

Irrigation Orchards. By Samuel Fortier, Chief, Irrigation Investigations, Office of Experiment Stations. Pp. 36, figs. 32. (Farmers' Bulletin 404.)

This bulletin is published for the use of settlers in the arid regions and gives directions for the selection of lands for orchards, clearing and grading the land, location of tree rows, methods of irrigation, removal of waste water, and growing crops between the rows. It describes typical water supplies for orchards, the duty of water and losses of water by evaporation and percolation.

## SEPARATES.

## NEW.

The Farmers' Cooperative Demonstration Work. By S. A. Knapp, Special Agent in Charge of Farmers' Cooperative Demonstration Work, Bureau of Plant Industry. Pp. 153-160, pls. 4. (Separate 501, Y. B. 1909.)

Tuberculosis of Hogs and How to Control It. By John R. Mohler, Chief, Pathological Division, and Henry J. Washburn, Senior Bacteriologist, Pathological Division, Bureau of Animal Industry. Pp. 227-238, pls. 3. (Separate 508, Y. B. 1909.)

Agricultural Statistics, 1909. Pp. 433-651. (Separate 524, Y. B. 1909.)

Field Tests with Serum for the Prevention of Hog Cholera. By W. B. Niles, Inspector in Charge of Field Station, Biochemic Division. Pp. 177-217, fig. 1. (Reprinted from An. Rpt. B. A. I., 1908.)

## REPRINTS.

Separate No. 266, Y. B. 1902. Top Working Orchard Trees.

Separate No. 320, Y. B. 1903. Relation of Sugar Beets to General Farming.

Separate No. 386, Y. B. 1905. The Principal Insect Enemies of the Peach.

Separate No. 480, Y. B. 1908. Information about Spraying for Orchard Insects.

Separate An. Rpt. O. E. S., 1908. The Alluvial Lands of the Lower Mississippi Valley and Their Drainage.

## PUBLICATIONS OF THE WEATHER BUREAU.

Report of Chief of the Weather Bureau [meteorological tables, calendar year] 1907 and [administrative report, fiscal year] 1908. By Willis L. Moore, Chief. Pp. 430. Cloth \$1; paper 55 cents.

Bulletin of the Mount Weather Observatory, Vol. III, Part 1. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1-68, pl. 1, figs. 6, charts 6. (W. B. No. 432.) Price 25 cents each part; \$1 a year.

Monthly Weather Review, Vol. 38, No. 4, April, 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 507-668, figs. 10, maps 26, charts 8. (W. B. No. 431.) Price 35 cents; \$4 a year.

National Weekly Weather Bulletin, Nos. 16-19, for weeks ending July 6, 11, 18, and 25, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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Jos. A. ARNOLD,  
*Editor in Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

No. 716.

## United States Department of Agriculture,

### DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., August 31, 1910.

## MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1910.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

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### REPORT.

#### NEW.

Annual Report of Alaska Agricultural Experiment Stations for 1909. By C. C. Georgeson, Special Agent in Charge, under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 82, pls. 10.

### BULLETINS.

#### NEW.

Methods and Standards in Bomb Calorimetry. Investigations in cooperation with the Institute of Animal Nutrition of the Pennsylvania State College. By J. August Fries, Assistant Expert in Animal Nutrition. Pp. 32. (Bulletin 124, Bureau of Animal Industry.) Price 5 cents.

Birds of California in Relation to the Fruit Industry. Part 2. By F. E. L. Beal, Assistant, Biological Survey. Pp. 96, pls. 6. (Bulletin 34, Biological Survey.) Price 40 cents.

Biologic and Economic Notes on the Yellow-bear Caterpillar. By H. O. Marsh, Agent and Expert. Pp. 59-66, fig. 1. (Bulletin 82, Part 5, Bureau of Entomology.) Price 5 cents.

Report on the Field Work against the Gipsy Moth and the Brown-tail Moth. By D. M. Rogers, Special Field Agent, and A. F. Burgess, Expert in Charge of Breeding Experiments. Pp. 81, pls. 13, figs. 22. (Bulletin 87, Bureau of Entomology.) Price 35 cents.

Proceedings of the Twenty-third Annual Convention of the Association of American Agricultural Colleges and Experiment Stations Held at Portland, Oregon, August 18-20, 1909. Edited by A. C. True and W. H. Beal, for the Office of Experiment Stations, and W. O. Thompson, for the Executive Committee of the Association. Pp. 124. (Bulletin 228, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XXIII, No. 2, August, 1910. E. W. Allen, Ph. D., Editor. Pp. 101-200.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, at \$1 per volume. Current numbers are not sold separately.

Protection of Forests from Fire. By Henry S. Graves, Forester. Pp. 48, pls. 10, fig. 1. (Bulletin 82, Forest Service.) Price 15 cents.

Monthly Bulletin (Library accessions), Vol. 1, No. 6, June, 1910. Pp. 140-170. (Library.) Price, 20 cents a year.

Grape Investigations in the Vinifera Regions of the United States with Reference to Resistant Stocks, Direct Producers, and Viniferas. By George C. Husmann, Pomologist in Charge of Viticultural Investigations. Pp. 86, pls. 8, figs. 30. (Bulletin 172, Bureau of Plant Industry.) Price 25 cents.

Agricultural and Botanical Explorations in Palestine. By Aaron Aaronsohn, Director of the Jewish Agricultural Experiment Station at Haifa, Palestine. Pp. 64, pls. 9, figs. 12. (Bulletin 180, Bureau of Plant Industry.) Price 15 cents.

Barium in Soils. By G. H. Failyer. Pp. 23, pl. 1. (Bulletin 72, Bureau of Soils.) Price 5 cents.

#### REPRINTS.

Bulletin 101, Bureau of Chemistry. The Lime-sulphur-salt Wash and Its Substitutes. Price 5 cents.

Bulletin 66, Part 1, Bureau of Entomology. The Asparagus Miner. Notes on the Asparagus Beetles. Price 5 cents.

Bulletin 88, Bureau of Entomology. Preventive and Remedial Work against Mosquitoes. Price 15 cents.

Bulletin 18, Technical Series, Bureau of Entomology. The Anatomy of the Honey Bee. Price 20 cents.

Bulletin 78, Forest Service. Wood Preservation in the United States. Price 10 cents.

#### CIRCULARS.

#### NEW.

The Regeneration of the Morgan Horse. By George M. Rommel, Chief of the Animal Husbandry Division, Bureau of Animal Industry. Pp. 14, figs. 2. (Circular 163, Bureau of Animal Industry.)

Amendment 8 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. P. 1. (Amendment 8 to Order 146, Bureau of Animal Industry.)

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1910. Pp. 16. (Circular 74, Bureau of Biological Survey.)

How to Kill and Bleed Market Poultry. By M. E. Pennington, Chief, Food Research Laboratory, and H. M. P. Betts. Pp. 15, figs. 5. (Circular 61, Bureau of Chemistry.)

A Knife for Killing Poultry. By H. C. Pierce, Food Research Laboratory. P. 1, fig. 1. (Miscellaneous, Bureau of Chemistry.)

The San Jose Scale and Its Control. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 18, figs. 10. (Circular 124, Bureau of Entomology.)

Experiments on the Apple with Some New and Little-known Fungicides. By M. B. Waite, Pathologist in Charge of Fruit-disease Investigations. Pp. 19. (Circular 58, Bureau of Plant Industry.)

Agricultural Conditions in Southern New York. By M. C. Burritt, Scientific Assistant, Office of Farm Management. Pp. 19, fig. 6. (Circular 64, Bureau of Plant Industry.)

Cotton Selection on the Farm by the Characters of the Stalks, Leaves, and Bolls. By O. F. Cook. Pp. 23. (Circular 66, Bureau of Plant Industry.)

Organization of Department of Agriculture, 1910. Pp. 69. (Circular 1, Revised, Division of Publications.)

Publications for Free Distribution. Pp. 79. (Circular 2, Revised, Division of Publications.)

Monthly List of Publications, July, 1910. Pp. 4. (Document 715, Division of Publications.)

Yellow Poplar (*Liriodendron tulipifera*). Pp. 4. (Circular 93, Revised, Forest Service.)

Shortleaf Pine (*Pinus echinata*). Pp. 4. (Circular 182, Forest Service.)

Loblolly Pine (*Pinus taeda*). Pp. 4. (Circular 183, Forest Service.)

Crop Reporter, Vol. 12, No. 8, August, 1910. Pp. 57-64. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

Circular 142, Bureau of Animal Industry. Some Important Factors in the Production of Sanitary Milk.

Circular 143, Bureau of Animal Industry. Milk and Its Products as Carriers of Tuberculosis Infection.

Circular 158, Bureau of Animal Industry. Improved Methods for the Production of Market Milk by Ordinary Dairies.

Circular 160, Bureau of Animal Industry. Lip-and-leg Ulceration of Sheep.

Order 143, Bureau of Animal Industry. Regulations of the Secretary of Agriculture Governing the Inspection, Disinfection, Certification, Treatment, Handling, and Method and Manner of Delivery and Shipment of Live Stock which is the Subject of Interstate Commerce.

Amendment 4 to Order 143, Bureau of Animal Industry. Modifying Regulations 11 to 18, inclusive, relating to the Prevention of the Spread of Splenetic Fever of Cattle, and revoking Amendment 3 to B. A. I. Order 143.

Circular 25, Bureau of Chemistry. Coloring Matters for Foodstuffs and Methods for Their Detection.

Circular 54, Bureau of Chemistry. Analyses of Canned Peas and Beans, Showing Composition of Different Grades.

Circular 46, Second Series, Revised Edition. Bureau of Entomology. Hydrocyanic-acid Gas against Household Insects.

Circular 51, Revised, Bureau of Entomology. Cockroaches.

Circular 64, Bureau of Entomology. The Cottony Maple Scale.

Circular 102, Bureau of Entomology. The Asparagus Beetles.

Circular 6, Bureau of Plant Industry. The Cultivation and Handling of Goldenseal.

Circular 52, Bureau of Plant Industry. Wart Disease of the Potato.

Circular 56, Bureau of Plant Industry. Some Conditions Influencing the Yield of Hops.

Document 485, Bureau of Plant Industry. The Selection of Cotton and Corn Seed for Southern Farms.

Document 503, Bureau of Plant Industry. Fall-breaking and the Preparation of the Seed Bed.

Circular 25, Forest Service. Forestry and the Lumber Supply.

Circular 59, Revised, Forest Service. Eucalypts.

Circular 81, Revised, Forest Service. Forest planting in Illinois.

Circular 167, Forest Service. The Status of Forestry in the United States.

Circular 171, Forest Service. The Forests of the United States: Their Use.

## FARMERS' BULLETINS.

## NEW.

**Experiment Station Work, LVIII.** (Compiled from the Publications of the Agricultural Experiment Stations.) Pp. 32, Fig. 6. (Farmers' Bulletin 412).

Contents: Fertilizers for pineapples—Wart disease of the potato—The typhoid or house fly—Rice and its by-products as feeding stuffs—The forced moulting of fowls—A portable panel fence—Pasteurization in butter making—Milling and baking tests with durum wheat.

**The Care of Milk and Its Use in the Home.** By George M. Whitaker, In Charge of Market Milk Investigations, Dairy Division, Bureau of Animal Industry; L. A. Rogers, Bacteriologist in Charge of Research Laboratories, Dairy Division, Bureau of Animal Industry; and Caroline L. Hunt, Expert in Nutrition, Office of Experiment Stations. Pp. 20. (Farmers' Bulletin 413.)

This bulletin contains directions for the care of milk in the home, cleaning bottles and utensils, etc., the home pasteurization of milk, the food value of milk, and its composition and economical use, with some examples of the use of skim milk, milk curd, and buttermilk.

## SEPARATES.

## NEW.

**The Opportunities in Forest Planting for the Farmer.** By Allen S. Peck, Assistant Chief of Operation, District 3, Forest Service. Pp. 333-344. Pls. 4, Fig. 1. (Separate 517, Yearbook 1909.)

## REPRINTS.

- Separate 47, Yearbook 1895. Small-fruit Culture for Market.
- Separate 196, Yearbook 1900. Smyrna Fig Culture in the United States.
- Separate 266, Yearbook 1902. Top Working Orchard Trees.
- Separate 329, Yearbook 1903. The Relation of Forests to Stream Flow.
- Separate 433, Yearbook 1906. Lime-sulphur Washes for the San Jose Scale.
- Separate 487, Yearbook 1908. Types of Farming in the United States.
- Separate 513, Yearbook 1909. Information in Regard to Fabricated Wire Fences and Hints to Purchasers.
- Separate 518, Yearbook 1909. Comforts and Conveniences in Farmers' Homes.

## PUBLICATIONS OF THE WEATHER BUREAU.

**Monthly Weather Review**, Vol. 38, No. 5, May, 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 670-827, figs. 6, maps 26, charts 8. (W. B. No. 433.) Price 35 cents; \$4 a year.

**National Weekly Weather Bulletin**, Nos. 21-24, for weeks ending August 8, 15, 22, 29, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

Approved:

W. M. HAYS,

*Acting Secretary of Agriculture.*

Jos. A. ARNOLD,  
*Editor and Chief.*



1 P9611  
This circular will be sent regularly to all who apply for it.

No. 718.

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., September 30, 1910.

## MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1910.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted, but coupons can be obtained of him in sets of 20 for a dollar, which will be accepted for 5 cents each, good until used.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

The very great demand for publications listed here often exhausts the supply before applications are received. Reference to the Superintendent of Documents is then necessary.

### REPORT.

NEW.

Progress of the Beet-sugar Industry in the United States in 1909. Pp. 87. (Report 92, Office of the Secretary.) Price 10 cents.

### BULLETINS.

NEW.

Index-catalogue of Medical and Veterinary Zoology. Part 30. (Authors: T to Thon.). By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant Zoologist, Bureau of Animal Industry. Pp. 2327-2386. (Bulletin 39, Part 30, Bureau of Animal Industry.) Price 10 cents.

Same, Part 31. (Authors: Thooris to Utz.). By Ch. Wardell Stiles and Albert Hassall. Pp. 2387-2442. (Bulletin 39, Part 31, Bureau of Animal Industry.) Price 10 cents.

Some Insects Injurious to Forests. Contents and Index. Pp. vii, 103-114. (Bulletin 58 [Part 6], Bureau of Entomology.) Price 5 cents.

On the Nut-feeding Habits of the Codling Moth. By S. W. Foster, Engaged in Deciduous Fruit-insect Investigations. Pp. 67-70, pls. 2. (Bulletin 80, Part 5, Bureau of Entomology.) Price 5 cents.

The Cowpea Curculio. By Geo. G. Ainslie, Entomological Assistant. Pp. 129-142, figs. 3. (Bulletin 85, Part 8, Bureau of Entomology.) Price 5 cents.

Calcium, Magnesium, and Phosphorus in Food and Nutrition. By Henry C. Sherman, Arthur J. Mettler, and J. Edwin Sinclair, Department of Chemistry, Columbia University. Pp. 70. (Bulletin 227, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XXII, Index Number. E. W. Allen, Ph.D., Editor. Pp. 801-900.

Same, Vol. XXIII, No. 3, September, 1910. Pp. 201-300.

Same, Vol. XXIII, No. 4, Abstract Number. Pp. 301-400.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, at \$1 per volume. Current numbers are not sold separately.

Food and Diet Charts Nos. 1-15. Prepared by C. F. Langworthy, Expert in Charge of Nutrition Investigations. (Misc., Office of Experiment Stations.) Price \$1 a set. Monthly Bulletin (Library accessions), Vol. 1, No. 7, July, 1910. Pp. 170-198. Price 50 cents a year.

Ten Years' Experience with the Swedish Select Oat. By Mark Alfred Carleton, Cerealist in Charge of Grain Investigations. Pp. 47, pls. 4, figs. 4. (Bulletin 182, Bureau of Plant Industry.) Price 10 cents.

The Production of Vegetable Seeds: Sweet Corn and Garden Peas and Beans. By W. W. Tracy, sr., Superintendent of Vegetable-testing Gardens. Pp. 39, figs. 3. (Bulletin 184, Bureau of Plant Industry.) Price 10 cents.

Cold Resistance of Alfalfa and Some Factors Influencing It. By Charles J. Brand, Physiologist, Crop Physiology and Breeding Investigations, and L. R. Waldron, Superintendent Dickinson Substation, North Dakota Agricultural Experiment Station. Pp. 80, pls. 4, fig. 1. (Bulletin 185, Bureau of Plant Industry.) Price 15 cents.

Imports of Farm and Forest Products, 1907-1909, by Countries from Which Consigned. Prepared in Division of Production and Distribution. Pp. 74. (Bulletin 82, Bureau of Statistics.) Price 10 cents.

#### REPRINTS.

North American Fauna No. 29. Bureau of Biological Survey. The Rabbits of North America. Price 50 cents.

Bulletin 83, Part 1, Bureau of Entomology. Barkbeetles of the Genus *Dendroctonus*. Price 25 cents.

Bulletin 86, Bureau of Entomology. Plant-bugs Injurious to Cotton Bolls. Price 20 cents.

Bulletin 151, Bureau of Plant Industry. Fruits Recommended by the American Pomological Society for Cultivation in the Various Sections of the United States and Canada. Price 15 cents.

#### CIRCULARS.

#### NEW.

Officials, Organizations, and Educational Institutions Connected with the Dairy Interests (1910). Pp. 31. (Circular 162, Bureau of Animal Industry.)

Amendment 1 to Rule 1, Revision 6.—To Prevent the Spread of Splenetic Fever in Cattle. Amendment Regarding the Return of Cattle of the Nonquarantined Area that are Exhibited at the North Carolina State Fair at Raleigh, N. C., October 17-22, 1910. Pp. 2. (B. A. I. Order 168, Amendment 1.)

Amendment 2 to Rule 1, Revision 6.—To Prevent the Spread of Splenetic Fever in Cattle. Amendment Regarding the Return of Cattle of the Nonquarantined Area that are Exhibited at the Arkansas State Fair at Hot Springs, Ark., October 10-15, 1910. Pp. 2. (B. A. I. Order 168, Amendment 2.)

Special Order Modifying the Tuberculin Test Requirement for Canadian Cattle Imported Temporarily for Exhibition Purposes at the Michigan State Agricultural Fair, to be Held at Detroit, Mich. P. 1. (B. A. I. Order 170.)

Special Order Modifying the Tuberculin Test Requirement for Canadian Cattle Imported Temporarily for Exhibition Purposes at the Fair to be Held at Ogdensburg, N. Y. P. 1. (B. A. I. Order 171.)

Food and Nutrition Investigations of the Office of Experiment Stations—Organization and Publications. Pp. 22. (Circular 102, Office of Experiment Stations.)

Engelmann Spruce in the Rocky Mountains, with Special Reference to Growth, Volume, and Reproduction. By E. R. Hodson, Forest Examiner, and J. H. Foster, Forest Assistant. Pp. 23. (Circular 170, Forest Service.)

Consumption of Firewood in the United States. By Albert H. Pierson, Forest Assistant. Pp. 7. (Circular 181, Forest Service.)

Grape-spraying Experiments in Michigan in 1909. By Lon A. Hawkins, Scientific Assistant, Fruit-disease Investigations. Pp. 15, pls. 3. (Circular 65, Bureau of Plant Industry.)

Seed Sterilization and Its Effect upon Seed Inoculation. By T. R. Robinson, Assistant Physiologist, Office of Soil-bacteriology and Water-purification Investigations. Pp. 11. (Circular 67, Bureau of Plant Industry.)

Additional Notes on the Number and Distribution of Native Legumes in Nebraska and Kansas. By Joseph Allen Warren, Assistant Agriculturist, Office of Farm Management. Pp. 8. (Circular 70, Bureau of Plant Industry.)

Publications for Sale. (Revised to July 15, 1910.) Pp. 110. (Circular 3, Division of Publications.)

Monthly List of Publications, August, 1910. Pp. 4. (Document 716, Division of Publications.)

Crop Reporter, Vol. 12, No. 9, September, 1910. Pp. 65-72. (Bureau of Statistics.)  
The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

Circular 89, Bureau of Animal Industry. The Preparation of Emulsions of Crude Petroleum.

Circular 108, Bureau of Animal Industry. Trichinosis: A Danger in Use of Raw Pork for Food.

Circular 131, Bureau of Animal Industry. Designs for Dairy Buildings.

Circular 138, Bureau of Animal Industry. Infectious Anemia or Swamp Fever of Horses.

Circular 153, Parts 1-5, Bureau of Animal Industry. The Dissemination of Disease by Dairy Products, and Methods for Prevention.

Circular 35, Bureau of Chemistry. Report on Colors: The Solubility and Extraction of Colors and the Color Reactions of Dyed Fiber and of Aqueous and Sulphuric-acid Solutions.

Circular 47, Bureau of Entomology. The Bedbug.

Circular 105, Bureau of Entomology. The Rose Slugs.

Circular 114, Bureau of Entomology. The Euonymus Scale.

Circular 77, Office of Experiment Stations. A Secondary Course in Agronomy.

Circular 98, Office of Experiment Stations. Progress in Agricultural Education Extension.

Circular 118, Forest Service. Management of Second Growth in the Southern Appalachians.

Document 332, Bureau of Plant Industry. The Citrange: A New Citrus Fruit.

Document 524, Bureau of Plant Industry. The Rusk Citrange.

Circular 90, Office of Public Roads. Progress Reports of Experiments in Dust Prevention, Road Preservation, and Road Construction.

#### FARMERS' BULLETINS.

##### NEW.

School Exercises in Plant Production. By Dick J. Crosby, Specialist in Agricultural Education, Office of Experiment Stations. Pp. 48, figs. 39. (Farmers' Bulletin 408.)

This bulletin describes the material needed for laboratory exercises in plant production, and contains outlines of lessons in the structure and growth of plants, methods of propagation, seed testing, etc., and a list of publications on agriculture, of special interest to teachers.

School Lessons on Corn. By Dick J. Crosby, Specialist in Agricultural Education, and F. W. Howe, Assistant in Agricultural Education, Office of Experiment Stations. Pp. 29, figs. 12. (Farmers' Bulletin 409.)

This bulletin contains outlines for class studies and exercises on the growth and structure of the corn plant, selection and testing of seed corn, and the cultivation and breeding of corn, with a list of publications on the subject.

Feeding Hogs in the South. By Dan T. Gray, Expert in Animal Husbandry, Bureau of Animal Industry. Pp. 47, figs. 9. (Farmers' Bulletin 411.)

This bulletin gives the results of a number of experiments in feeding hogs with corn alone and with concentrates and pasture crops as supplements. It contains suggestions for the care of brood sows, and pigs, the selection of breeding stock, etc.

Seed Corn. By C. P. Hartley, Physiologist in Charge of Corn Investigations, Bureau of Plant Industry. Pp. 12, figs. 3. (Farmers' Bulletin 415.)

This bulletin contains directions for the growing, selection, and care of seed corn, the destruction of weevils or grain moths, the testing, grading, and shelling of the corn to be planted, with suggestions to the corn grower as to the importance and requirements of good seed, and adaptability of any variety to his locality.

Rice Culture. By S. A. Knapp, Special Agent in Charge of Farmers' Cooperative Demonstration Work, Bureau of Plant Industry. Pp. 30. (Farmers' Bulletin 417.)

This bulletin contains information as to varieties of rice, rice soils and sections, the irrigation, growing, drainage, etc., of rice crops, rice mills, the question of labor on rice plantations in various countries, with a treatise on the cultivation of rice in southwestern Louisiana and southeastern Texas.

Game Laws for 1910. A Summary of the Provisions relating to Seasons, Shipments, Sale, Limits, and Licenses. By Henry Oldys, C. E. Brewster, and Frank L. Earnshaw, Assistants, Biological Survey. Pp. 47, figs. 2. (Farmers' Bulletin 418.)

#### SEPARATES.

##### NEW.

Raw Materials Available for Alcohol Making. Pp. 24-31. (Repr. Chemistry Bulletin 130.)

Denatured Alcohol and Denaturants. By C. A. Crampton, Chief Chemist, Internal-revenue Service. Pp. 76-84, 161-164. (Repr. Chemistry Bulletin 130.)

Regulation Relating to Industrial Alcohol Distilleries. By Wales Hubbard, Internal-revenue Service. Pp. 152-161. (Repr. Chemistry Bulletin 130.)

Agriculture as First Year Science. Pp. 201-209. (Repr. Experiment Station Record, Vol. XXIII, No. 3.)

#### REPRINTS.

Separate 290, Yearbook 1902. Fertilizers for Special Crops.

Separate 509, Yearbook 1909. Farming as an Occupation for City-bred Men.

#### PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. 38, No. 6, June, 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 829-989, figs. 15, maps 26, charts 7. (W. B. No. 434.) Price 35 cents; \$4 a year.

National Weekly Weather Bulletin, Nos. 25-27, for weeks ending September 6, 13, 20, 27, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

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Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



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No. 719.

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., October 31, 1910.

## MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1910.]

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### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of the Marianna Area, Florida. By Grove B. Jones, R. W. Rowe, J. C. Britton, R. B. Hardison, and C. R. Zappone, jr. Pp. 30, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Tift County, Georgia. By J. C. Britton and Percy O. Wood. Pp. 20, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Lincoln Parish, Louisiana. By Charles J. Mann and Lawrence A. Kolbe. Pp. 33, fig. 1, map.. (From F. O. Soils, 1909.)

Soil Survey of the Orono Area, Maine. By Ora Lee, jr. Pp. 38, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Anne Arundel County, Maryland. By J. C. Britton and C. R. Zappone, jr. Pp. 42, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Auglaize County, Ohio. By W. J. Geib. Pp. 22, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Atchison County, Missouri. By Charles J. Mann and H. Kruskenskopf. Pp. 36, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Saluda County, South Carolina. By W. E. McLendon. Pp. 33, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Anderson County, South Carolina. By W. E. McLendon. Pp. 27, fig. 1, map. (From F. O. Soils, 1909.)

Soil Survey of Morris County, Texas. By E. B. Watson and Risden T. Allen. Pp. 24, fig. 1, map. (From F. O. Soils, 1909.)

### REPORT.

#### NEW.

Annual Report of the Office of Experiment Stations for the Year Ended June 30, 1909. Pp. 439, pls. 19, figs. 6. Price, cloth, 55 cents.

### BULLETINS.

#### NEW.

Index-catalogue of Medical and Veterinary Zoology. Part 32. (Authors: V to Vyner.) By Ch. Wardell Stiles, Consulting Zoologist, Bureau of Animal Industry, and Albert Hassall, Assistant Zoologist, Bureau of Animal Industry. Pp. 2443-2508. (Bulletin 39, Part 32, Bureau of Animal Industry.) Price 10 cents.

The Gid Parasite and Allied Species of the Cestode Genus *Multiceps*. I. Historical Review. By Maurice C. Hall, Junior Zoologist, Zoological Division. Pp. 68, fig. 1. (Bulletin 125, Part 1, Bureau of Animal Industry.) Price 10 cents.

Revision of the Wood Rats of the Genus *Neotoma*. By Edward A. Goldman, Field Naturalist, Biological Survey. Prepared under the direction of Henry W. Henshaw, Chief of Bureau of Biological Survey. Pp. 124, pls. 8, figs. 14. (North American Fauna No. 31, Biological Survey.) Price 25 cents.

Distribution and Migration of North American Shorebirds. By Wells W. Cooke, Assistant, Biological Survey. Pp. 100, pls. 4. (Bulletin 35, Biological Survey.) Price 20 cents.

Maple-sap Sirup: Its Manufacture, Composition, and Effect of Environment Thereon. By A. Hugh Bryan, Chief, Sugar Laboratory. Pp. 110, pl. 1, figs. 5. (Bulletin 134, Bureau of Chemistry.) Price 25 cents.

Notes on a Colorado Ant. By H. O. Marsh, Agent and Expert. Pp. 73-78. (Bulletin 64, Part 9, Bureau of Entomology.) Price 5 cents.

Some Insects Injurious to Truck Crops. I. The Asparagus Miner. Notes on the Asparagus Beetles. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. II. The Water-cress Sowbug. The Water-cress Leaf-beetle. By F. H. Chittenden. III. The Cranberry Spanworm. The Striped Garden Caterpillar. By F. H. Chittenden. IV. The Leafhoppers of the Sugar Beet and Their Relation to the "Curly-leaf" Condition. By E. D. Ball, Special Field Agent. V. The Semitropical Army Worm. By F. H. Chittenden and H. M. Russell. VI. The Hop Flea-beetle. By F. H. Chittenden. VII. Miscellaneous Notes on Truck-crop Insects. By F. H. Chittenden. Pp. 108, pls. 7, figs. 19. (Bulletin 66, Bureau of Entomology.) Price 20 cents.

The Smoky Crane-fly. By James A. Hyslop, Agent and Expert. Pp. 119-132, figs. 7. (Bulletin 85, Part 7, Bureau of Entomology.) Price 5 cents.

The Grape Root-worm, with Especial Reference to Investigations in the Erie Grape Belt from 1907 to 1909. By Fred Johnson and A. G. Hammar, engaged in Deciduous-fruit Insect Investigations, in Cooperation with the Office of the State Zoologist, Pennsylvania Department of Agriculture. Pp. 100, pls. 10, figs. 31. (Bulletin 89, Bureau of Entomology.) Price 50 cents.

Consolidated Rural Schools and Organization of a County System. By George W. Knorr, Special Field Agent, Bureau of Statistics. Pp. 99, figs. 31. (Bulletin 232, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XXIII, No. 5, October, 1910. E. W. Allen, Ph. D., Editor. Pp. 401-500.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

The Commercial Hickories. By Anton T. Boisen, Forest Assistant, and J. A. Newlin, Engineer in Timber Tests. Pp. 64, pls. 6, figs. 17. (Bulletin 80, Forest Service.) Price 15 cents.

Monthly Bulletin (Library Accessions), Vol. 1, No. 8, August, 1910. Pp. 200-230. (Library.) Price 20 cents a year.

Orchard Green-manure Crops in California. By Roland McKee, Scientific Assistant, Office of Forage-crop Investigations. Pp. 40, figs. 9. (Bulletin 190, Bureau of Plant Industry.) Price 10 cents.

The Value of First-generation Hybrids in Corn. By G. N. Collins, Botanist, Crop Acclimatization and Adaptation Investigations. Pp. 45. (Bulletin 191, Bureau of Plant Industry.) Price 10 cents.

Some Effects of a Harmful Organic Soil Constituent. By Oswald Schreiner and J. J. Skinner. Pp. 98, pls. 4, figs. 31. (Bulletin 70, Bureau of Soils.) Price 20 cents.

Agricultural Graphics. United States and World Crops and Live Stock. Prepared by Middleton Smith, of the Bureau of Statistics. Pp. 67. (Bulletin 78, Bureau of Statistics.) Price 15 cents.

REPRINTS.

Bulletin 75, Part 7, Bureau of Entomology. Bee Keeping in Massachusetts. Price 5 cents.

Bulletin 81, Bureau of Entomology. A List of Works on North American Entomology. Price 15 cents.

Bulletin 204, Office of Experiment Stations. School Gardening and Nature Study in English Rural Schools and in London. Price 10 cents.

Bulletin 214, Office of Experiment Stations. Irrigation in the State of Washington. Price 10 cents.

Bulletin 175, Bureau of Plant Industry. The History and Distribution of Sorghum. Price 10 cents.

CIRCULARS.

NEW.

Decision of the Attorney-General in regard to the Labeling of Whiskies Sold under Distinctive Names. Pp. 6. (Food Inspection Decision 127, Office of the Secretary.)

Rule 8, Revision 2.—To Prevent the Spread of Lip-and-Leg Ulceration (Necrobacillosis) in Sheep. Pp. 4. (B. A. I. Order 169.)

Amendment 1, Rule 8, Revision 2.—To Prevent the Spread of lip-and-leg Ulceration (Necrobacillosis) in Sheep. P. 1. (Amendment 1, to B. A. I. Order 169.)

Monthly List of Publications, September, 1910. Pp. 4. (Document 718, Division of Publications.)

Crop Reporter, Vol. 12, No. 10, October, 1910. Pp. 73-80. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

The Potato as a Truck Crop. By L. C. Corbett, Horticulturist in Charge of the Arlington Experimental Farm and Horticultural Investigations, Bureau of Plant Industry. Pp. 24, figs. 11. (Farmers' Bulletin 407.)

This bulletin treats of the economical importance of the Irish potato, its production, planting, soil requirements, seed, fertilizers, cultivation, spraying, harvesting, digging, packing, grading, marketing, etc.

Potato Culls as a Source of Industrial Alcohol; with a General Discussion of the Availability of Other Wastes. By A. O. Wente, Fermentation Expert, and L. M. Tolman, Chief, Washington Food Inspection Laboratory. Pp. 40, figs. 10. (Farmers' Bulletin 410.)

This bulletin discusses the conditions necessary for successful alcohol production, fundamental considerations in establishing a potato distillery, the cost of the plant and its operation, Government regulations, the details of operating a potato distillery, the nature, use and manufacture of malt, preparation and uses of yeasts, analytical data in connection with the experiments, and the value and uses of the by-products.

The Production of Cigar-leaf Tobacco in Pennsylvania. By William Frear, Chemist of the Pennsylvania Agricultural Experiment Station, and E. K. Hibshman, Collaborator of the Office of Tobacco Investigations, Bureau of Plant Industry. Pp. 24, figs 9. (Farmers' Bulletin 416.)

This bulletin contains information in regard to the character of the cigar-leaf tobacco produced in Pennsylvania, localized concentration of tobacco culture, soils devoted to tobacco culture, cultural methods, harvesting, curing, and handling, cost of production, and diseases and enemies of tobacco.

Experiment Station Work, LIX. Compiled from the publications of the agricultural experiment stations. Pp. 24, figs. 4. (Farmers' Bulletin 419.)

Contents: Tillage v. sod mulch in orchards—Ear characters of seed corn—Seed disinfection—Blackleg of the Irish potato—Progress in horse breeding—Sweet potatoes.

SEPARATES.

NEW.

Operation of an Experimental Distillery for Making Industrial Alcohol. Pp. 62-69, figs. 4. (From Bulletin 130, Bureau of Chemistry.)

REPRINTS.

Separate 233, Yearbook 1901. Some Problems of the Rural Common School.

Separate 350, Yearbook 1904. Practical Road Building in Madison County, Tennessee.

Separate 382, Yearbook 1905. The Use of Illustrative Material in Teaching Agriculture in Rural Schools.

Separate 505, Yearbook 1909. The Problems of an Irrigation Farmer.

Separate 522, Yearbook 1909. How Farmers May Utilize the Special Warnings of the Weather Bureau.

PUBLICATIONS OF THE WEATHER BUREAU.

Contents and Index to Bulletin of the Mount Weather Observatory, Vol. 2. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. vii, 411-415. (Weather Bureau.) Price 5 cents.

Bulletin of the Mount Weather Observatory, Vol. 3, Part 2. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 69-126, figs. 4. (W. B. 437.) Price, 25 cents each part; \$1 a year.

Monthly Weather Review, Vol. 38, No. 7, July, 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 991-1146, figs. 2, maps 26, charts 7. (W. B. 436.) Price, 35 cents; \$4 a year.

Same, Vol. 38, No. 8, August, 1910. Pp. 1147-1307, figs. 7, maps 26, charts 7. (W. B. 438.) Price 35 cents.

National Weekly Weather Bulletin, No. 29, for week ending October 3, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

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Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

No. 721.

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 30, 1910.

## MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1910.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895.

### BULLETINS.

#### NEW.

The Bacteriology of Commercially Pasteurized and Raw Market Milk. (Bulletin 126, Bureau of Animal Industry.)

Some Insects Injurious to Forests. I. The Locust Borer. II. The Western Pine-destroying Barkbeetle. III. Additional Data on the Locust Borer. IV. The Southern Pine Sawyer. V. Insect Depredations in North American Forests and Practical Methods for Prevention and Control. (Bulletin 58, Bureau of Entomology.)

The Pecan Cigar Case-bearer. (Bulletin 64, Part X, Bureau of Entomology.)

Life History of the Codling Moth in Northwestern Pennsylvania. (Bulletin 80, Part VI, Bureau of Entomology.)

The One-spray Method in the Control of the Codling Moth and the Plum Curculio. (Bulletin 80, Part VII, Bureau of Entomology.)

Tests of Sprays against European Fruit Lecanium and the European Pear Scale. (Bulletin 80, Part VIII, Bureau of Entomology.)

Experiment Station Record, Vol. XXIII, No. 6, November, 1910.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

The Woodsman's Handbook (revised and enlarged). (Bulletin 36, Forest Service.)

Monthly Bulletin (Library accessions). Vol. 1, No. 9, September, 1910. (Library.)

Field Studies of the Crown-gall and Hairy-root of the Apple Tree. (Bulletin 186, Bureau of Plant Industry.)

A Study of Cultivation Methods and Crop Rotations for the Great Plains Area. (Bulletin 187, Bureau of Plant Industry.)

Dry Farming in Relation to Rainfall and Evaporation. (Bulletin 188, Bureau of Plant Industry.)

The Source of the Drug Dioscorea, with a Consideration of the Dioscoreæ found in the United States. (Bulletin 189, Bureau of Plant Industry.)

Experiments in Blueberry Culture. (Bulletin 193, Bureau of Plant Industry.)

Studies in Soil Oxidation. (Bulletin 73, Bureau of Soils.)

Grain Movement in the Great Lakes Region. (Bulletin 81, Bureau of Statistics.)

Exports of Farm and Forest Products, 1907-1909, by Countries to Which Consigned. (Bulletin 83, Bureau of Statistics.)

## REPRINTS.

The Bobwhite and Other Quails of the United States in Their Economic Relations. (Bulletin 21, Biological Survey.)

Distribution and Migration of North American Ducks, Geese, and Swans. (Bulletin 26, Biological Survey.)

Influence of Food Preservatives and Artificial Colors on Digestion and Health. Salicylic Acid and Salicylates. (Bulletin 84, Part, II, Bureau of Chemistry.)

Injury to Vegetation by Smelter Fumes. (Bulletin 89, Bureau of Chemistry.)

Official and Provisional Methods of Analysis, Association of Official Agricultural Chemists. (Bulletin 107, Bureau of Chemistry.)

Report of the Meeting of Inspectors of Apiaries, San Antonio, Tex., November 12, 1906. (Bulletin 70, Bureau of Entomology.)

School Gardens; A Report upon Some Cooperative Work with the Normal Schools of Washington, with Notes on School-garden Methods Followed in Other American Cities. (Bulletin 160, Office of Experiment Stations.)

American Root Drugs. (Bulletin 107, Bureau of Plant Industry.)

The Loose Smuts of Barley and Wheat. (Bulletin 152, Bureau of Plant Industry.)

Some Effects of a Harmful Organic Soil Constituent. (Bulletin 70, Bureau of Soils.)

## CIRCULARS.

## NEW.

The Mission of Cooperative Demonstration Work in the South. (Circular 33, Office of the Secretary.)

Sago and Tapioca. (Food Inspection Decision 128, Office of the Secretary.)

The Certification of Straight Dyes and Mixtures under Secondary Certificates. Amendment to F. I. D. 77. (Food Inspection Decision 129, Office of the Secretary.)

State Live Stock Sanitary Officers. (Circular 164, Bureau of Animal Industry.)

The California Ground Squirrel. (Circular 76, Biological Survey.)

Officials Charged with the Enforcement of Food Laws in the United States and Canada, revised to July 1, 1910. (Circular 16, Bureau of Chemistry.)

A Comparison of Beef and Yeast Extracts of Known Origin. (Circular 62, Bureau of Chemistry.)

Insects Which Kill Forest Trees: Character and Extent of Their Depredations and Methods of Control. (Circular 125, Bureau of Entomology.)

Insect Injuries to the Wood of Living Trees. (Circular 126, Bureau of Entomology.)

Insects in Their Relation to the Reduction of Future Supplies of Timber, and General Principles of Control. (Circular 129, Bureau of Entomology.)

Free Publications of the Department of Agriculture Classified for the Use of Teachers. (Circular 94, revised, Office of Experiment Stations.)

Farmers' Institutes for Young People. (Circular 99, Office of Experiment Stations.)

The Selection and Installation of Machinery for Small Pumping Plants. (Circular 101, Office of Experiment Stations.)

Handling Wheat from Field to Mill. (Circular 68, Bureau of Plant Industry.)

Legume Inoculation and the Litmus Reaction of Soils. (Circular 71, Bureau of Plant Industry.)

A Moisture Tester for Grain and Other Substances and How to Use it. (Circular 72, Bureau of Plant Industry.)

Monthly List of Publications, October, 1910. (Document 719, Division of Publications.)

Crop Reporter, Vol. 12, No. 11, November, 1910. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

Directions for the Use of Blackleg Vaccine. (Circular 23, Bureau of Animal Industry.)  
 A Review of Some Experimental Work in Pig Feeding. (Circular 63, Bureau of Animal Industry.)  
 The Tapeworms of American Chickens and Turkeys. (Circular 85, Bureau of Animal Industry.)  
 Trichinosis: A Danger in the Use of Raw Pork for Food. (Circular 108, Bureau of Animal Industry.)  
 Tuberculosis of Hogs: Its Cause and Suppression. (Circular 144, Bureau of Animal Industry.)  
 Some Important Facts in the Life History of the Gid Parasite and Their Bearing on the Prevention of the Disease. (Circular 159, Bureau of Animal Industry.)  
 Regulations Governing the Meat Inspection of the United States Department of Agriculture. As amended, effective May 1, 1908. (Order 150, Bureau of Animal Industry.)  
 The Value of Peaches as Vinegar Stock. (Circular 51, Bureau of Chemistry.)  
 The Peach-tree Borer. (Circular 54, Bureau of Entomology.)  
 The Nut Weevils. (Circular 99, Bureau of Entomology.)  
 Control of the Brown-rot and Plum Curculio on Peaches. (Circular 120, Bureau of Entomology.)  
 Dry-land Grains. (Circular 12, Bureau of Plant Industry.)  
 The Substitution of the Lime-sulphur Preparations for Bordeaux Mixture in the Treatment of Apple Diseases. (Circular 54, Bureau of Plant Industry.)

## FARMERS' BULLETINS.

## NEW.

## Oats: Distribution and Uses. (Farmers' Bulletin 420.)

This bulletin contains statistics of the production and distribution of the oat crop by continents, and in the United States, gives directions and information in regard to the marketing of oats, the utilization of the grain and straw, its use as hay, pasturing, and as a soiling crop, and its value as a nurse and cover crop.

## Demonstration Work on Southern Farms. (Farmers' Bulletin 422.)

This bulletin contains information in regard to the inauguration and history of the demonstration work, the plan of organization, the scope of the demonstrations and instructions, how farmers are influenced to adopt better methods, cultural systems for producing cotton under boll-weevil conditions, work on various farm crops, features of boys' corn clubs, results of the work, etc.

## Experiment Station Work, LX: Compiled from the Publications of the Agricultural Experiment Stations. (Farmers' Bulletin 425.)

CONTENTS: Commercial bean growing—Digestion experiments with range forage crops—Stallion Legislation—Substitutes for oats for horses—Tests for casein in milk.

## Barley Culture in the Southern States. (Farmers' Bulletin 427.)

This bulletin gives statistics of the production, acreage, and prices of barley grown in some of the Southern States in 1909, names the varieties grown, and gives directions for sowing, fertilizing, and harvesting the crop. It also describes some diseases and insects that attack the barley and contains statements from seedmen and farmers in regard to its value and uses.

## SEPARATES.

## NEW.

## (From Annual Report, Office of Experiment Stations, 1909.)

## Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1909. (Document 1309, Office of Experiment Stations.)

## Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1909. (Document 1310, Office of Experiment Stations.)

The Farmers' Institutes in the United States, 1909. (Document 1312, Office of Experiment Stations.)

Progress Report of Investigations in Human Nutrition in the United States, 1905-1909. (Document 1313, Office of Experiment Stations.)

Recent Irrigation Legislation. (Document 1314, Office of Experiment Stations.)

Reclamation of the Southern Louisiana Wet Prairie Lands. (Document 1315, Office of Experiment Stations.)

REPRINTS.

The Causes of Southern Rural Conditions and the Small Farm as an Important Remedy. (Separate 483, Yearbook 1908.)

By-products of the Sugar Beet and Their Uses. (Separate 493, Yearbook 1908.)

Information in regard to Fabricated Wire Fences and Hints to Purchasers. (Separate 513, Yearbook 1909.)

Comforts and Conveniences in Farmers' Homes. (Separate 518, Yearbook 1909.)

Effect of Distillation in Different Types of Stills. (From Bulletin 130, Bureau of Chemistry.)

Reclamation of Tide Lands. (From Annual Report, Office of Experiment Stations, 1906.)

PUBLICATIONS OF THE WEATHER BUREAU.

Bulletin of the Mount Weather Observatory, Vol. 3, No. 3. (Document 439, Weather Bureau.) Price 25 cents; \$1 a year.

Monthly Weather Review, Vol. 38, No. 9, September, 1910. (Document 440, Weather Bureau.) Price 35 cents; \$4 a year.

National Monthly Weather Bulletin, No. 31, for November, 1910, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Electrotypes of any illustrations which have appeared in the publications of this Department since 1908 can be supplied to applicants on an order from the Division of Publications, by the firms which make them for the Department, the cost being about 5 cents per square inch, payable to the maker on receipt of the cuts.

It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., December, 31, 1910.

## MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1910.]

NOTE.—Application for publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of some of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants will be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applicants are urgently requested to ask only for those publications in which they are particularly interested. The Department can not undertake to supply complete sets, nor is it allowable to send more than one copy of any publication to an applicant.

In no case should money be sent to this Department in payment for its publications.

### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Tallapoosa County, Alabama. By Howard C. Smith and Philip H. Avary. Pp. 36, fig. 1, map. (From F. O. Soils, 1909.)  
 Soil Survey of Franklin County, Georgia. By W. E. McLendon. Pp. 22, fig. 1, map. (From F. O. Soils, 1909.)  
 Soil Survey of the Nashua Area, New Hampshire. By Chas. N. Mooney and W. C. Byers. Pp. 34, fig. 1, map. (From F. O. Soils, 1909.)  
 Soil Survey of the Conway Area, South Carolina. By W. J. Latimer and Cornelius Van Duyne. Pp. 34, fig. 1, map. (From F. O. Soils, 1909.)  
 Soil Survey of Sumner County, Tennessee. By Chas. N. Mooney, Orla L. Ayrs, and James L. Burgess. Pp. 29, fig. 1, map. (From F. O. Soils, 1909.)  
 Soil Survey of Grayson County, Texas. By Frank Bennett, Clarence Lounsbury, R. T. Avon Burke, A. T. Sweet, and Percy O. Wood. Pp. 37, fig. 1, map. (From F. O. Soils, 1909.)  
 Soil Survey of the Spencer Area, West Virginia. By W. J. Latimer and F. N. Meeker. Pp. 32, fig. 1, map. (From F. O. Soils, 1909.)

### REPORTS.

#### NEW.

Report of the Secretary of Agriculture, 1910. By James Wilson, Secretary. Pp. 170.  
 Report of the Chief of the Division of Accounts and Disbursements for 1910. By A. Zappone, Chief. Pp. 57. (From Annual Reports of the Department of Agriculture.)  
 Report of the Chief of the Bureau of Animal Industry for 1910. By A. D. Melvin, Chief. Pp. 83. (From Annual Reports of the Department of Agriculture.)  
 Report of the Appointment Clerk for 1910. By J. B. Bennett, Appointment Clerk. Pp. 24. (From Annual Reports of the Department of Agriculture.)  
 Report of the Bureau of Biological Survey for 1910. By H. W. Henshaw, Chief. Pp. 19. (From Annual Reports of the Department of Agriculture.)  
 Report of the Chemist for 1910. By H. W. Wiley, Chemist. Pp. 67. (From Annual Reports of the Department of Agriculture.)  
 Report of the Editor for 1910. By Jos. A. Arnold, Chief. Pp. 78. (From Annual Reports of the Department of Agriculture.)  
 Report of the Entomologist for 1910. By L. O. Howard, Entomologist. Pp. 44. (From Annual Reports of the Department of Agriculture.)  
 Report of the Director of the Office of Experiment Stations for 1910. By A. C. True, Director. Pp. 36. (From Annual Reports of the Department of Agriculture.)  
 Report of the Forester for 1910. By Henry S. Graves, Forester. Pp. 67. (From Annual Reports of the Department of Agriculture.)  
 Report of the Librarian for 1910. By Claribel R. Barnett, Librarian. Pp. 16. (From Annual Reports of the Department of Agriculture.)

Report of the Acting Chief of the Bureau of Plant Industry for 1910. By G. Harold Powell, Acting Chief. Pp. 92. (From Annual Reports of the Department of Agriculture.)

Report of the Director of the Office of Public Roads for 1910. By Logan Waller Page, Director. Pp. 30. (From Annual Reports of the Department of Agriculture.)

Report of the Chief of the Bureau of Soils for 1910. By Milton Whitney, Chief. Pp. 19. (From Annual Reports of the Department of Agriculture.)

Report of the Solicitor for 1910. By George P. McCabe, Solicitor. Pp. 107. (From Annual Reports of the Department of Agriculture.)

Report of the Chief of the Bureau of Statistics for 1910. By Victor H. Olmsted, Chief. Pp. 32. (From Annual Reports of the Department of Agriculture.)

Report of the Chief of the Weather Bureau for 1910. By Willis L. Moore, Chief. Pp. 40. (From Annual Reports of the Department of Agriculture.)

BULLETINS.

NEW.

Raising Deer and Other Large Game Animals in the United States. By David E. Lantz, Assistant. Pp. 62, pls. 8. (Bulletin 36, Biological Survey.)

Notes on the Cucumber Beetles. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Biologic Notes on Species of *Diabrotica* in Southern Texas. By H. O. Marsh, Agent and Expert. Pp. 67-84, figs. 5. (Bulletin 82, Part VI, Bureau of Entomology.)

Damage to Chestnut Telephone and Telegraph Poles by Wood-boring Insects. By Thomas E. Snyder, Agent and Expert. Pp. 1-12, pls. 2, figs. 3. (Bulletin 94, Part I, Bureau of Entomology.)

Delivery of Water to Irrigators. By Frank Adams, Irrigation Manager. Pp. 99, figs. 9. (Bulletin 229, Office of Experiment Stations.)

College Extension in Agriculture. Discussions before the Graduate School of Agriculture, at the Iowa State College, Ames, Iowa, July 4-27, 1910. Edited by John Hamilton, Farmers' Institute Specialist. Pp. 86. (Bulletin 231, Office of Experiment Stations.)

Experiment Station Record, Vol. XXIII, No. 7, December, 1910. By E. W. Allen, Ph. D., Editor. Pp. 601-700.

Same, Vol. XXIII, No. 8, Abstract Number, 1910. Pp. 701-800.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

The Forest Resources of the World. By Raphael Zon, Chief of Sylvics. Pp. 91. (Bulletin 83, Forest Service.)

Monthly Bulletin (Library Accessions), Vol. I, No. 10, October, 1910. Pp. 261-294. (Library.)

The Production of Volatile Oils and Perfumery Plants in the United States. By Frank Rabak, Chemical Biologist. Pp. 55, figs. 5. (Bulletin 195, Bureau of Plant Industry.)

Breeding Drought-resistant Forage Plants for the Great Plains Area. By Arthur C. Dillman, Assistant Physiologist. Pp. 40, pls. 4. (Bulletin 196, Bureau of Plant Industry.)

The Soy Bean; History, Varieties, and Field Studies. By C. V. Piper, Agrostologist, and W. J. Morse, Scientific Assistant. Pp. 84, pls. 8. (Bulletin 197, Bureau of Plant Industry.)

The Determination of the Deterioration of Maize, with Incidental Reference to Pellagra. By O. F. Black and C. L. Alsberg, Chemical Biologists. Pp. 36. (Bulletin 199, Bureau of Plant Industry.)

Breeding New Types of Egyptian Cotton. By Thomas H. Kearney, Physiologist. Pp. 39, pls. 4. (Bulletin 200, Bureau of Plant Industry.)

The Electrical Bridge for the Determination of Soluble Salts in Soils. By R. O. E. Davis and H. Bryan. Pp. 36, pls. 5, figs. 7. (Bulletin 61, Bureau of Soils.)

Chemical Nature of Soil Organic Matter. By Oswald Schreiner and Edmund C. Shorey. Pp. 48, pl. 1. (Bulletin 74, Bureau of Soils.)

## CIRCULARS.

## NEW.

Rules and Regulations for Carrying out the Provisions of the Insecticide Act of 1910.  
 Pp. 14. (Circular 34, Office of the Secretary.)

Methods for the Eradication of Gid. By Maurice C. Hall, Junior Zoologist, Zoological Division. Pp. 29, pl. 1, figs. 14. (Circular 165, Bureau of Animal Industry.)

Regulations Governing the Certification of Recognized Breeds and Purebred Animals. Pp. 6. (Order 175, Bureau of Animal Industry.)

Regulations of the Secretary of Agriculture Governing the Certification of Recognized Breeds and Purebred Animals. P. 1. (Amendment 1 to Order 175, Bureau of Animal Industry.)

Order Providing for the Inspection and Quarantine of Collie, Shepherd, or Sheep Dogs Imported into the United States or the Territories thereof, From Any Country of the World Except North America. Pp. 2. (Order 176, Bureau of Animal Industry.)

Special Order Providing for the Importation of Canadian Sheep for Exhibition Purposes at the National Midwinter Sheep Show, Portland, Oregon. P. 1. (Order 177, Bureau of Animal Industry.)

Studies of Poultry from the Farm to the Consumer. By M. E. Pennington, Chief, Food Research Laboratory. Pp. 42, figs. 9. (Circular 64, Bureau of Chemistry.)

The Estimation of Iodin in Organic Compounds and Its Separation from Other Halogens. By A. F. Seeker and W. E. Mathewson, Assistant Chemists, New York Food and Drug Inspection Laboratory. Pp. 5. (Circular 65, Bureau of Chemistry.)

The Status of the Cotton Boll Weevil in 1909. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations. Pp. 12, fig. 1. (Circular 122, Bureau of Entomology.)

Insect Injuries to the Wood of Dying and Dead Trees. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 3. (Circular 127, Bureau of Entomology.)

Insect Injuries to Forest Products. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 9. (Circular 128, Bureau of Entomology.)

The Oak Pruner. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 7. (Circular 130, Bureau of Entomology.)

List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. Pp. 13. (Circular 105, Office of Experiment Stations.)

Utilization of California Eucalypts. By H. S. Betts and C. Stowell Smith, Assistant District Foresters. Pp. 30, figs. 7. (Circular 179, Forest Service.)

The Ornamental Value of the Saltbushes. By David Griffiths, Agriculturist, Office of Farm Management. Pp. 6, pl. 1. (Circular 69, Bureau of Plant Industry.)

Opinions of the District Court of the United States for the District of Idaho Involving Saloon Trespass on National Forest. Pp. 11. (Circular 40, Office of the Solicitor.)

Crop Reporter, Vol. 12, No. 12, December, 1910. Pp. 89-96. (Bureau of Statistics.)

Supplement to Crop Reporter, Vol. 12, No. 12. Pp. 97-104. December, 1910.

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

The Preservation of Our Native Types of Horses. (Circular 137, Bureau of Animal Industry).

Hydrocyanic-acid Gas Against Household Insects. (Circular 46, Bureau of Entomology.)

The Plum Curculio. (Circular 73, Bureau of Entomology.)

The Oyster-shell Scale and the Scurfy Scale. (Circular 121, Bureau of Entomology.)

The San Jose Scale and Its Control. (Circular 124, Bureau of Entomology.)

Shagbark Hickory. (Circular 62, Forest Service.)

White Pine. (Circular 67, Forest Service.)

Cottonwood. (Circular 77, Forest Service.)

Boxelder. (Circular 86, Forest Service.)

Tamarack. (Circular 89, Forest Service.)

Dry-land Grains in the Great Basin. (Circular 61, Bureau of Plant Industry.)

Methods of Legume Inoculation. (Circular 63, Bureau of Plant Industry.)

Publications for Free Distribution. (Circular 2, Division of Publications.)  
The Wire-basket Method for Determining the Manurial Requirements of Soils. (Circular 18, Bureau of Soils.)

FARMERS' BULLETINS.

NEW.

Notes on Frost, revised. By E. B. Garriott and Alexander G. McAdie, Professors of Meteorology. Pp. 32, figs. 4. (Farmers' Bulletin 104.)

In addition to the matter contained, issued under this title in 1899, this bulletin contains results of experiments made in the citrus-fruit and truck-growing districts of the Gulf States, descriptions of later devices for the prevention of injury to crops from frost, with other useful information acquired since the bulletin was first issued.

Corn Cultivation. By C. P. Hartley, Physiologist in Charge of Corn Investigations. Pp. 32, figs. 25. (Farmers' Bulletin 414.)

This bulletin supersedes Farmers' Bulletin 199 on the same subject. It discusses the possibility of doubling the present yield of corn, improvement in quality of seed, conditions of the soil, methods of cultivation, etc.

The Control of Blowing Soils. By E. E. Free, Physicist, Bureau of Soils, and J. M. Westgate, Agronomist, Bureau of Plant Industry. Pp. 23, figs. 10. (Farmers' Bulletin 421.)

This bulletin contains information as to the normal movements of the soil, the causes of excessive blowing of soil, the methods of control, and the prevention of damage.

Forest Nurseries for Schools. By Walter M. Moore, Forest Assistant, and Edwin R. Jackson, Expert, Forest Service. Pp. 24, figs. 8. (Farmers' Bulletin 423.)

This bulletin contains general suggestions for the school nursery, the collection of seeds, the preparation of the seed bed, planting the seed, transplanting, care, and disposal of seedlings, field sowing, and growing the trees from cuttings.

Oats: Growing the Crop. By C. W. Warburton, Agronomist in Charge of Oat Investigations, Bureau of Plant Industry. Pp. 44, figs. 13. (Farmers' Bulletin 424.)

This bulletin gives the origin and history of the oat plant, describes types of soil adapted to oat production, discusses the place of oats in crop rotation, methods of seeding, harvesting the crop, crop yields, diseases and insects affecting oats, etc.

Canning Peaches on the Farm. By H. P. Gould, Pomologist in Charge, and W. F. Fletcher, Scientific Assistant, Fruit District Investigations, Bureau of Plant Industry. Pp. 26, figs. 14. (Farmers' Bulletin 426.)

This bulletin contains information in regard to the extent and location of the peach-canning industry, the principles of successful peach canning, the necessary outfit for the work, and the handling and marketing of the fruit.

SEPARATES.

NEW.

Progress in Agricultural Education, 1909. By Dick J. Crosby. Pp. 251-325. (From Annual Report, Office of Experiment Stations, 1909. O. E. S. Doc. 1311.)

REPRINTS.

Commercial Pear Culture. (Yearbook Separate 215.)

Methods and Costs of Marketing. (Yearbook Separate 502.)

Plants Useful to Attract Birds and Protect Fruit. (Yearbook Separate 504.)

Introduction of the Hungarian Partridge into the United States. (Yearbook Separate 510.)

PUBLICATIONS OF THE WEATHER BUREAU.

Bulletin of the Mount Weather Observatory, Vol. 3, Part 4. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 201-274, figs. 10, charts 6. (Document 441, Weather Bureau.) Price 25 cents; \$1 a year.

Monthly Weather Review, Vol. 38, No. 10, October, 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1469-1624, figs. 8, maps 26, charts 7. (Document 442, Weather Bureau.) Price 35 cents; \$4 a year.

Snow and Ice Bulletins for December 2, 9, 16, 23, and 30. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau Stations, supplemented by reports from selected cooperative observers. Price 25 cents a year.

Approved:

JAMES WILSON,  
Secretary of Agriculture.

Jos. A. ARNOLD,  
Editor and Chief.